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UNITED STATES NATIONAL MUSEUM BULLETIN 262

Catalog of the Type Specimens of Invertebrate Fossils

LOUIS R. PURNELL

Part I: Paleozoic Cephalopoda

SMITHSONIAN INSTITUTION PRESS
WASHINGTON, D.C.
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Publications of the United States National Museum

The scientific publications of the United States National Museum include two series, *Proceedings of the United States National Museum* and *United States National Museum Bulletin.*

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This work forms number 262 of the *Bulletin* series.

FRANK A. TAYLOR
Director, United States National Museum

U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON : 1968

Introduction

By

Richard S. Boardman[1]

The Paleozoic cephalopod catalog is the first in a proposed series listing invertebrate fossil type specimens of the Division of Invertebrate Paleontology of the Smithsonian Institution. The only other published catalog (Schuchert, 1905, USNM Bulletin 53, pt. 1) covered the entire type collection of fossil invertebrates held at that time. Since 1905 the type collections have grown from approximately 11,500 to nearly 200,000 (fig. 1).

In compiling the cephalopod catalog all illustrated types were compared with published pictures, and all of the nomenclature was rechecked. This is necessarily a long and detailed task accomplished with meticulous attention by Museum Specialist Louis R. Purnell, under the supervision of Erle G. Kauffman, Frederick J. Collier, and myself. All of the Paleozoic cephalopod type specimens acquired through 1965 are listed.

The Collection

Specimens in the type collections include the primary types and secondary types designated in the literature. Designation can be by illustration, or isolation in the text by measurement of other mention. Each individually mentioned type specimen receives a separate catalog number. Primary or secondary types which have not received individual designation are collected into occurrence suites and each suite is given a catalog number. Kinds of primary types differentiated in the collection include holotypes, syntypes, lectotypes, paratypes, paralectotypes, and neotypes, as defined in articles 73-75 of the International Code of Zoological Nomenclature. Secondary types identified to species are generally termed hypotypes for curatorial purposes. Secondary types not identified to species or identified with a degree of doubt are termed simply figured or mentioned specimens. Plastotypes are cataloged and placed in the type collections when illustrations, descriptions, or measurement are based on the plastotype itself. Other plastotypes are included in the type collection at the discretion of the curator.

In addition to the type collection listed in this catalog, the division

[1] Curator-in-Charge, Division of Invertebrate Paleontology.

maintains a large nontype collection of identified specimens arranged taxonomically, in cooperation with the Paleontology and Stratigraphy Branch of the U.S. Geological Survey. Unstudied specimens are generally filed by occurrence data in a third collection.

The Catalog

The cephalopod catalog is divided into four major chapters: Nautiloidea, Ammonoidea, Bactritoidea, and Coleoidea. Within each chapter the taxa are listed alphabetically by genus and species. With one exception, a specimen is entered only once and under the first generic and species combination assigned, regardless of the number of times it is redescribed or reillustrated. The exception is a previously described specimen that is redescribed as a primary type of a new species, whether or not the generic designation is also changed.

The catalog is meant to be an objective and brief listing of type specimens and not a source book for occurrence data, synonymies, or stratigraphic interpretation of any kind. Individual citations include the binomen, author, date, page, plate, figure numbers, kind of type, catalog number, rock unit as originally designated, and state, province, or country, whichever best applies. A full bibliography is located at the end of the catalog.

Use of the Collections

VISITORS TO THE MUSEUM.--Qualified professional people and graduate students recommended by their universities are welcomed and encouraged to use the collections of the division. Equipment is limited, especially during university vacation periods, so it is generally useful to inquire in advance about availability. Research areas are generally closed on Sundays and holidays.

LOANS.--Loans of specimens in all categories are made regularly by mail in North America, and all but holotypes are loaned abroad. During fiscal 1966, 12,869 specimens were sent out on loan. Loans are made to educational and research institutions for the use of their professional staff within institutional quarters only. Loans for the use of graduate students are made through their major professor or departmental head. Nontype material is loaned for 2 months, or longer if needed. Loans will not be made to private individuals at private homes.

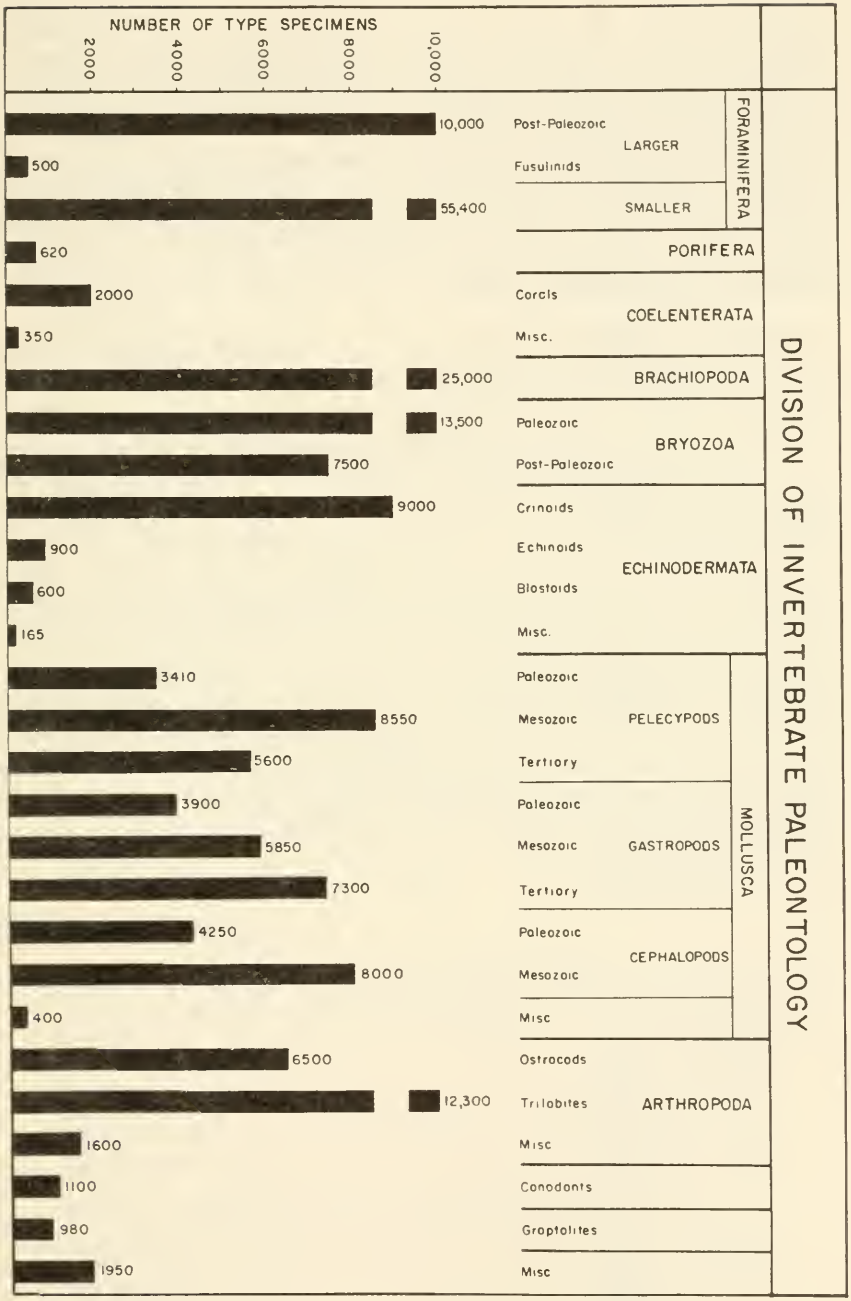

FIGURE 1.—Graph showing the taxonomic distribution and the approximate numbers of specimens in the invertebrate fossil type collections of the Smithsonian Institution. (Compiled in 1965.)

Type specimens are loaned for 2-week periods and sent by registered mail. People with requests for large loans of types are urged to come to the museum to study them. If a visit is not feasible, types are mailed in smaller lots; each lot is sent out upon return of the last one. Although the division has not had a loss using registered mail in recent years, it is better to risk just a few types in any one mailing. Silicified or other fragile specimens are not loaned because of the probability of breakage. Types from the Springer Echinoderm collection cannot be loaned out because of the terms of the bequest.

DEPOSIT OF TYPE SPECIMENS.--It is Smithsonian policy to accept all types sent in for permanent deposit by authors working outside the Institution. This is done regularly by taxonomists who do not have a stable repository convenient to them. It is recommended that those authors who plan to deposit types at the Smithsonian Institution write to the Division of Invertebrate Paleontology, U.S. National Museum, Washington, D.C. 20560, to ask for a block of catalog numbers, one for each individually designated specimen and paratype of hypotype suite. These numbers will be reserved and will be sent immediately to the author so that they can be included in the manuscript and published. Numbered specimens should be deposited by the time of publication. It is the responsibility of the author to prepare specimens for permanent storage and to identify specimens with their assigned catalog numbers. Specimens sent in before publication will not be available for examination by anyone without the author's permission until published. At that time, the technical staff of the museum will catalog, label, and place the specimens in the collections.

September 15, 1966

Subclass Nautiloidea

Actinoceras

adnatum Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 225, pl. 39, figs. 3a-c.

Holotype	82191
Black River Fm., upper Plattin Ls. or Lowville Div.	Missouri

altopontense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 225, 226, pl. 35, fig. 1a-c; pl. 56, fig. 1.

Holotype	82196
Lowville Ls.	Kentucky

amundsoni Foerste

Foerste, A. F., 1921: p. 289, pl. 29, figs. 1a, b; pl. 32, fig 3(?)

Plastoholotype	145000
Black River equivalents	Boothia Felix or Prince William Land, Canada

arcanum Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 226, pl. 39, figs. 1a, b; pl. 56, fig. 3.

Holotype	82238
Lowville Ls., Tyrone Mbr.	Kentucky

bellefontense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 227, 228, pl. 38, figs. 2a, b; pl. 56, fig. 4.

Holotype	82204
Black River Ls., Lowville Ls. Mbr.	Pennsylvania

beloitense (Whitfield)

Foerste, A. F., and Teichert, Curt, 1930: p. 228-231, pl. 28, fig. 2; pl. 29, fig. 1; pl. 30, figs. 1a, b; pl. 59, fig. 7.

Hypotypes	82203, 82225, 82226
Black River Ls.	Ontario, Canada
Hypotype	5081
Black River Ls.	Wisconsin
Hypotype	82236
Tyrone Ls.	Tennessee

Teichert, Curt, 1933: p. 133, 180, pl. 8, fig. 1, text-fig. 14.

Hypotype	8228c
Black River	Ontario, Canada
Hypotype	15490
Lowville (?)	Indiana

Actinoceras--Continued

bigsbyi Brown

Foerste, A. F., and Teichert, Curt, 1930: p. 231-235, pl. 27, figs. 1a-c; pl. 40, fig. 3; pl. 56, fig. 2; pl. 59, fig. 6.

Hypotypes	15669, 82192
Black River Ls., Platteville Mbr.	Wisconsin
Hypotype	82192
Lowville Ls., Tyrone Mbr.	Kentucky

caneyense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 235-236, pl. 37, figs. 1a, b; pl. 56, fig. 7.

Holotype	82194
Cannon Ls. or basal Tyrone Ls.	Tennessee

capitolinum (Safford)

Foerste, A. F., and Teichert, Curt, 1930: p. 236-237, pl. 41, figs. 1a-c; pl. 57, fig. 7.

Neotype	48426
Trenton Fm., Bigby Mbr.	Tennessee

centrale Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 238, 239.

Hypotype	82209
Black River Ls., Watertown Mbr.	New York

cinctum Foerste and Teichert

Foerste, A. F., and Tiechert, Curt, 1930: p. 239, 240, pl. 50, figs. 3a, b.

Holotype	82195
Black River, upper Plattin Mbr. or Lowville Div.	Missouri

circulare Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 240, pl. 40, figs. 1a, b.

Holotype	82208
Black River Ls., Plattin Mbr.	Missouri

concavum Endo

Endo, Riuji, 1932: p. 78, pl. 16, fig. 10.

Holotype	83705
Ssuyen Fm. ?	Manchuria, China

crebiseptum (Hall)

Reudemann, Rudolf, 1926: p. 100-102, pl. 16, fig. 7, text-figs. 22, 23.

Hypotype	34610
Whetstone Gulf Sh.	New York
Hypotype	23648
Lorraine Fm. (drift)	New York

Actinoceras--Continued

curdsvillense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 240, 241, pl. 39, figs. 2a, b; pl. 56, fig. 9.
Holotype 48425
Trenton Ls., Curdsville Mbr. Kentucky

glencoense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 241, 242, pl. 40, figs. 2a-c; pl. 56, fig. 11.
Holotype and paratype 82197a, b
Black River, upper Plattin Ls. or Lowville Div. Missouri

glenni Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 242, 243.
Holotype listed as USNM 82207 at Vanderbilt University
Paratype 82206
Lowville Ls., Tyrone Mbr. Tennessee

jessaminense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 243, 244, pl. 38, figs. 1a, b; pl. 57, fig. 2.
Holotype 82198
Lowville Ls., Tyrone Mbr. Kentucky

kentuckiense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 244, pl. 32, figs. 1a, b; pl. 33, fig. 1; pl. 57, fig. 3.
Holotype 82237
Lowville Ls., Tyrone Mbr. Kentucky

lentiexpandum Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 245, pl. 36, fig. 2; pl. 57, fig. 1.
Holotype listed as USNM 82211 at Vanderbilt University
Cannon Ls. Tennessee

libanum Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 245, 246, pl. 34, figs. 1a, b; pl. 57, fig. 5.
Syntypes 48424a, b
Camp Nelson Fm. Kentucky

? *lindenense* Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 246-248, pl. 33, fig. 2.
Holotype 82229
Lowville Ls. Pennsylvania

Actinoceras--Continued

pohli Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 249, 250, pl. 37, figs. 2a-c; pl. 57, fig. 8.
Holotype listed as USNM 82205 at Vanderbilt University
Lowville Ls., Carters Mbr.? Tennessee

ruedemanni Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 250-252, pl. 52, fig. 2; pl. 57, fig. 9
Holotype and paratypes 82215, 4774, 5006a, 34019b
Black River Ls., Watertown Mbr. New York

cf. *A. rudedemanni clarkei* Troedsson

Miller, A. K., et al., 1954: p. 70, 71, pl. 21, figs. 3, 4; pl. 37, figs. 1-3.
Figured specimens 124581, 124587
Upper Ordovician Sh. Baffin Island, Canada

saffordi Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 252, pl. 27, figs. 2a, 2b; pl. 57, fig. 4.
Holotype and paratype 82199, 82200
Lowville Ls., Carters Mbr. Tennessee

cf. *A. saffordi* Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 252, 253, pl. 30, fig. 2.
Figured specimen 82201
Lowville Ls., Carters Mbr. Tennessee

tennesseense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 253, 254.
Paratypes 82202
Lowville Ls., Carters Mbr.?

tenuifilum (Hall)

Foerste, A. F., 1921: p. 284-287, pl. 28, fig. 2; pl. 32, fig. 1.
Hypotype 82210a
Black River Ls. New York

tenuifilum centrale Foerste

Foerste, A. F., 1921: p. 293, 294, pl. 28, fig. 1; pl. 32, fig. 4.
Holotype 78483
Black River Ls. New York

Actinoceras--Continued

vaughanianum Girty

Girty, G. H., 1909a: p. 48, pl. 7, fig. 1; pl. 8, fig. 1; pl. 9, figs. 1, 2.
Holotype and paratypes 14511, 119577, 119578
Caney Sh. Oklahoma

sp.

Foerste, A. F., 1928a: p. 63, pl. 7, fig. 3; pl. 28, fig. 2.
Figured specimen 142780
Black River, Trenton equivalents Alaska

? sp.

Miller, A. K., et al., 1954: p. 71, pl. 50, figs. 1, 2.
Figured specimen 124586
Upper Ordovician Sh. Baffin Island, Canada

Adnatoceras

alaskense Gordon

Gordon, Mackenzie, Jr., 1957: p. 25, 26, pl. 2, figs. 5-7, 13.
Holotype and paratype 118940, 118941
Alapah Ls. Alaska

cooperi Flower

Flower, R. H., 1939b: p. 124, 125, pl. 7, figs. 1, 6.
Holotype 90758
Tully Ls., Westbrook Mbr. New York

Aipoceras ?

sp.

Gutschick, R. C., and Treckman, J. F., 1957: p. 1150, pl. 143, fig. 2.
Figured specimen 136474
Rockford Ls. Indiana

Albertoceras

gracillimum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 61, 62, pl. 23, figs. 15, 16.
Holotype 109479
Mons Fm. Alberta, Canada

minimum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 62, pl. 23, figs. 17-25.
Syntypes 109480, 109481
Arbuckle Ls. Oklahoma

Albertoceras--Continued

staufferi Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 62, 63, pl. 23, figs. 1-4.
Holotype and paratype 109482
Ellenburger Ls., Gasconade Horiz. Texas

ref. *A. staufferi* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 62, 63, pl. 23, figs. 5-7.
Figured specimen 109483
Mons Fm. Alberta, Canada

walcotti Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 261, 262, pl. 38, figs. 11, 12.
Holotype and paratype 92682a, b
Mons Fm. Alberta, Canada

Ulrich, E. O., et al., 1944: p. 61, pl. 23, figs. 13, 14.
Hypotypes 109475-109478
Mons Fm. Alberta, Canada

Aletoceras

amphoroides Flower

Flower, R. H., 1938: p. 37, pl. 3, figs. 3, 4.
Holotype 96777
Tully Ls., Westbrook Mbr. New York

Allopiloceras

affine Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 27, pl. 3, figs. 9, 10.
Holotype 108226
Knox Dol., Cotter Horiz. Tennessee

baylorense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 28, pl. 36, figs. 7-10.
Holotype and paratype 108227a, b
El Paso Ls. Texas

breve Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 28, pl. 4, figs. 5, 6.
Holotype 108228
Knox Dol., Roubidoux Horiz. Tennessee

compressum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 30, pl. 4, figs. 7, 8.
Holotype 108229
Knox Dol., Cotter Horiz. Tennessee

Allopiloceras--Continued

erectum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 31, pl. 4, figs. 1-4; pl. 5, figs. 7, 8.
Holotype and paratypes 108230a-c
Knox Dol., Cotter Horiz. Tennessee

sevierense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 32, pl. 3, figs. 1-7.
Holotype and paratypes 108231, 108232a, b
Knox Dol., Cotter Horiz. Tennessee

subrectum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 32, 33, pl. 4, figs. 14-21.
Holotype and paratypes 108233a, b, 108234a-c, 108235a, b
Knox Dol., Cotter Horiz. Tennessee

cf. *A. subrectum* Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 33, pl. 3, fig. 8.
Figured specimen 108236
Arbuckle Ls., Cotter Horiz. Oklahoma

subunguliforme Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 33, 34, pl. 4, figs. 9-13.
Holotype and paratype 108237a, b
Knox Dol., Cotter Horiz. Tennessee

tennesseense Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 262, 263, pl. 38, fig. 6.
Holotype 92683
Cotter Fm. Tennessee

unguliforme Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 34, pl. 2, figs. 1, 2.
Holotype 108238
Knox Dol., Cotter Horiz. Tennessee

sp.

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 456, pl. 42, fig. 28.
Figured specimen 116719
Honeycut Fm. Texas

Unklesbay, A. G., 1961: p. 375, pl. 52, fig. 9.
Figured specimen 143003
Roubidoux Horiz. Texas

Allumettoceras

subequilaterale ? Miller

Miller, A. K., et al., 1954: p. 75-77, pl. 28, figs. 3-5; pl. 36, figs. 1-12; pl. 58, figs. 1-6; text-fig. 8a
Figured specimens 124578, 124578b, 124609a, b, 124682a-f
Upper Ordovician Sh. Baffin Island, Canada

sp.

Miller, A. K., et al., 1954: p. 77, pl. 37, fig. 6.
Figured specimen 124607
Upper Ordovician Sh. Baffin Island, Canada

Amphicyrtoceras

bownockeri Foerste

Foerste, A. F., 1934: p. 152, 153, pl. 37, figs. 1a-c; pl. 36, fig. 2.
Holotype and paratypes 81827a-d
Peebles Dol. Ohio

depresum Foerste

Foerste, A. F., 1930b: p. 74, 75, pl. 12, figs. 5a, b
Paratype 81431
Port Byron Dol. Illinois

depressum ? Foerste

Foerste, A. F., 1930b: p. 74, 75, pl. 12, figs. 7a, b.
Figured specimen (not located) 81431
Port Byron Dol. Illinois

inflatum Foerste

Foerste, A. F., 1930b: p. 72, pl. 12, figs. 1a, b.
Holotype 81430
Port Byron Dol. Illinois

tantalum Foerste

Foerste, A. F., 1924: p. 259, pl. 29, figs. 2a-c.
Holotype 81927
Cedarville Dol. equivalent Ohio

Anomeioceras

brevicameratum Foerste

Foerste, A. F., 1930b: p. 91, pl. 17, figs. 4a, b; 5.
Holotype and paratype 81447, 81447a
Port Byron Dol. Illinois

Anomeioceras--Continued

compressum Foerste

Foerste, A. F., 1930b: p. 89, 90, pl. 17, figs. 6a, b.
Holotype 81446
Port Byron Dol. Illinois

Antiphragmoceras

ulrichi Foerste

Foerste, A. F., 1925: p. 68, 69, pl. 3, fig. 3; pl. 17, fig. 5, pl. 23, fig. 2; pl. 24, figs. 1a, b.
Holotype 67242
Trenton, Hermitage Div. Tennessee

Aphelaeceras ?

sp.

Easton, W. H., 1962: p. 101, pl. 13, fig. 26.
Figured specimen 118879
Cameron Creek Fm. Montana

Aphetoceras

attenuatum Hyatt

Ulrich, E. O., et al., 1942: p. 18-20, pl. 1, fig. 2; pl. 4, figs. 6, 7; pl. 8, fig. 8; pl. 25, fig. 6; text-fig. 3.
Hypotypes 14702, 101331a, b
Naylor Ledge Ls. Quebec, Canada

evolution Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 21, pl. 4, fig. 8.
Holotype 101332
Cotter Fm. Missouri

oderi Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 22, 23, pl. 3, figs. 6, 7; pl. 4, fig. 5.
Holotype and paratypes 101333
Cotter Horiz. Tennessee

ruedemanni Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 23, pl. 3, figs. 1, 2.
Holotype 101334
Ogdensburg Fm., Cotter Horiz. New York

subcostulatum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1942: p. 23, 24, pl. 2, figs. 1-3; pl. 3, figs. 4-5; pl. 4, fig. 4.
Syntypes 101335a, b, 101336, 101338a-c.
Jefferson City Fm. Missouri

267-454 O - 68 - 2

Aphetoceras--Continued

subcostulatum--Continued

Unklesbay, A. G., 1961: p. 377, pl. 52, fig. 1.
Hypotype 143006
Jefferson City equivalent
(? Honeycut Fm.) Missouri

subcostulatum ? Ulrich, Foerste, Miller, and Unkesbay

Ulrich, E. O., et al., 1942: p. 23, 24, pl. 3, fig. 3.
Figured specimen 101337
Cotter Fm. Missouri
Described specimen 101339
Jefferson City Fm. Missouri

spp.

Ulrich, E. O., et al., 1942: p. 24, 25, pl. 4, figs. 1, 2.
Figured specimen 101340
Jefferson City Fm. Missouri
Figured specimen 101341
Jefferson City Horiz. ? Virginia

Arkoceras

exiguum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 69, pl. 12, figs. 3-5; pl. 43, figs. 1, 2; text-fig. 17d.
Syntypes 101406
Smithville Ls. Arkansas

sp.

Ulrich, E. O., et al., 1942: p. 69.
Described specimen 101407
Naylor Ledge Ls. Quebec, Canada

Armenoceras

asiaticum Endo

Endo, Riuji, 1932: p. 81, 82, pl. 16, figs. 2-6.
Syntypes 83708, 83709
Ssuyen Fm. Manchuria, China

bassleri Endo

Endo, Riuji, 1932: p. 82, pl. 22, figs. 5, 6; pl. 40, fig. 12.
Holotype 83759
Ssuyen Fm. Manchuria, China

Armenoceras--Continued

brevicameratum Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 271, 272, pl. 44, figs. 1a, b; pl. 58, fig. 2.
Holotype 82222
Catheys Ls. Tennessee

coulingi (Grabau)

Endo, Riuji, 1932: p. 83, 84, pl. 17, fig. 5.
Hypotype 83711
Ssuyen Fm. Manchuria, China

elegans Endo

Endo, Riuji, 1932: p. 84, 85, pl. 15, figs. 1-3.
Holotype and paratypes 83703, 83704
Ssuyen Fm. Manchuria, China

elongatum Endo

Endo, Riuji, 1932: p. 85, 86, pl. 17, figs. 1-4; pl. 18, fig. 8.
Holotype and paratypes 83712, 83713a, b, 83714
Ssuyen Fm. Manchuria, China

gasconense Foerste

Foerste, A. F., 1936a: p. 74, 75.
Paratype 92803
LaVieille Ls. Quebec, Canada

haroi (Kobayashi)

Endo, Riuji, 1932: p. 87, pl. 16, fig. 1.
Hypotype 83716
Ssuyen Fm. Manchuria, China

hatai Endo

Endo, Riuji, 1932: p. 86, 87, pl. 18, figs. 1-3.
Holotype 83715
Ssuyen Fm. Manchuria, China

hayasakai Endo

Endo, Riuji, 1932: p. 87, 88, pl. 18, figs. 6, 7.
Holotype and paratype 83717, 83718
Ssuyen Fm. Manchuria, China

kidoi Endo

Endo, Riuji, 1932: p. 88, 89, pl. 18, fig. 9; pl. 40, fig. 5.
Holotype 83719
Ssuyen Fm. ? Manchuria, China

Armenoceras--Continued

madisonense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 272, 273, pl. 45, figs. 1a-c; pl. 58, fig. 1.
Holotype 15493
Richmond Gr., Saluda Mbr.? Indiana

manchuriense (Kobayashi)

Endo, Riuji, 1932: p. 90, 91, pl. 19, figs. 6-8.
Hypotypes 83721, 83722
Ssuyen Fm. Manchuria, China

murakamii ? (Kobayashi)

Endo, Riuji, 1932: p. 91, 92, pl. 19, figs. 2-4.
Figured specimens 83724, 83725
Ssuyen Fm. Manchuria, China

nanum (Grabau)

Endo, Riuji, 1932: p. 92, 93, pl. 18, figs. 4, 5.
Hypotypes 83726, 83727
Ssuyen Fm. Manchuria, China

nanum takayamai Endo

Endo, Riuji, 1932: p. 93, 94, pl. 16, figs. 7, 8.
Holotype and paratype 83728, 83729
Ssuyen Fm. Manchuria, China

nudum Endo

Endo, Riuji, 1932: p. 94, pl. 20, fig. 1; pl. 40, fig. 13.
Holotype 83730
Ssuyen Fm. ? Manchuria, China

numatai Endo

Endo, Riuji, 1932: p. 94, 95, pl. 26, fig. 11; pl. 40, fig. 7.
Holotype 83706
Wuting Fm. Manchuria, China

orientale Endo

Endo, Riuji, 1932: p. 80, pl. 16, fig. 9; pl. 40, fig. 14.
Holotype 83707
Ssuyen Fm. Manchuria, China

penhsiense Endo

Endo, Riuji, 1932: p. 95, 96, pl. 20, fig. 6; pl. 40, fig. 15.
Holotype 83731
Ssuyen Fm. Manchuria, China

Armenoceras--Continued

resseri Endo

Endo, Riuji, 1932: p. 83, pl. 17, fig. 6.
Holotype 83710
Ssuyen Fm. Manchuria, China

richardsoni (Stokes)

Foerste, A. F., and Teichert, Curt, 1930: p. 271, 273, pl. 43, fig. 1a, b.
Hypotypes (thin section, 4761b, not located) 4761, 4761b
Red River Fm., Selkirk Ls. Manitoba, Canada

richthofeni (Frech)

Endo, Riuji, 1932: p. 96, 97, pl. 20, fig. 10.
Hypotype 83732
Ssuyen Fm. Manchuria, China

shimizui Endo

Endo, Riuji, 1930: p. 97, pl. 20, fig. 5.
Holotype 83733
Ssuyen Fm. Manchuria, China

sondai Endo

Endo, Riuji, 1932: p. 98, pl. 20, figs. 7, 8; pl. 40, fig. 9.
Holotype and paratype 83734, 83735
Ssuyen Fm. Manchuria, China

suzukii Endo

Endo, Riuji, 1932: p. 98, 99, pl. 21, figs. 5, 6.
Holotype 83736
Ssuyen Fm. Manchuria, China

tani (Grabau)

Endo, Riuji, 1932: p. 99, 100, pl. 14, fig. 2; pl. 21, fig. 7; pl. 40, fig. 3.
Hypotypes 83737, 83738
Ssuyen Fm. Manchuria, China

teicherti Endo

Endo, Riuji, 1932: p. 89, 90, pl. 19, fig. 1; pl. 40, fig. 6.
Holotype 83720
Ssuyen Fm. Manchuria, China

yabei Endo

Endo, Riuji, 1932: p. 100, pl. 21, fig. 89.
Holotype 83739
Ssuyen Fm. ? Manchuria, China

Armenoceras--Continued

sp.

Teichert, Curt 1933: p. 135, 136, 151, pl. 10, figs. 16, 17.
Figured specimen 82242
Racine Ls. Wisconsin

Endo, Riuji, 1932: p. 101, 102, pl. 25, fig. 2.
Figured specimen 83744
Wuting Fm. Manchuria, China

Endo, Riuji, 1932: p. 101, pl. 19, fig. 9; pl. 20, fig. 2.
Figured specimens 83740, 83741
Ssuyen Fm. Manchuria, China

Asymptoceras

newloni Hyatt

Hyatt, Alpheus, 1891: p. 346, 347, text-figs. 48, 49.
Holotype 23869
Carboniferous, "Coal Measures" Kansas

Austinoceras

turgidulum Foerste

Foerste, A. F., 1934: p. 140, 141, pl. 33, figs. 4a, b.
Holotype 89819
Cedarville Dol. Ohio

Avaoceras

elongatum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 41, pl. 8, figs. 10-12.
Holotype and paratype 109443, 109444
Jefferson City Dol. Missouri

Unklesbay, A. G., 1961: p. 375, 376, pl. 52, fig. 3.
Hypotype 143005
Lower Jefferson City Horiz. Texas

longidomum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al. 1944: p. 42, pl. 8, fig. 13.
Holotype 109445
Jefferson City Dol. Missouri

magnisiphonatum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 42, pl. 8, figs. 14. 15.
Holotype and paratype 109446, 109447
Jefferson City Dol. Missouri

Avaoceras--Continued

wellsense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 43, pl. 8, figs. 1, 2.
Holotype and paratype 109448, 109449
Powell Horiz. ? Tennessee

Baeopleuroceras

incipens Williams

Cooper, G. A., and Williams, J. S., 1935: p. 852, pl. 60, figs. 24, 27.
Holotype 89758
Tully Fm., Westbrook Mbr. New York

Barrandeoceras

cf. *B. natator* (Billings)

Ulrich, E. O., et al., 1942: p. 32, 33, pl. 10, figs. 4, 5; pl. 25, figs. 2, 3; text-fig. 1a.
Figured specimen (thin section not located: pl. 25, fig. 3) 101366
Chazyan Boulder in Mystic Conglomerate Quebec, Canada

Basslerocerasas

bridgei Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 36, pl. 6, fig. 6.
Holotype 109440
Roubidoux Horiz. Virginia

dalevillense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 37, pl. 6, figs. 1, 2.
Holotype 109441
Cotter Horiz. Virginia

lasallense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 38, pl. 5, figs. 5, 6.
Holotype 109442
Shakopee Dol. Illinois

? *tenuiculum* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 40, pl. 7, figs. 9, 10.
Holotype 116611 (109443 in text: error)
Smithville Fm. Arkansas

Bathmoceras

complexum (Barrande)

Ulrich, E. O., et al., 1944: p. 129, 130, pl. 36, figs. 1-3, 6, 7.
Hypotypes and plastohypotype 109610
Sarka Beds Bohemia

? *tennesseense* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 130, pl. 8, figs. 3-8.
Syntypes 109612, 109613
Chepultepec Dol. Tennessee

Beloitoceras

fremontense Foerste

Foerste, A. F., 1935: p. 29, pl. 10, fig. 2.
Holotype 90907
Big Horn Fm. Wyoming

landerense Foerste

Foerste, A. F., 1935: p. 30, 31, pl. 4, fig. 3.
Holotype 90909
Big Horn Fm. Wyoming

popoagiense Foerste

Foerste, A. F., 1935: p. 29, 30, pl. 10, fig. 3.
Holotype 90908
Big Horn Fm. Wyoming

ulrichi Flower

Flower, R. H., 1946: p. 285, 286, pl. 35, fig. 1.
Holotype 114663
Elkhorn Beds Indiana

Bickmorites

barbensis Foerste

Foerste, A. F., 1936a: p. 72.
Paratypes 92802, 92802a, b
Gascons Fm. Quebec, Canada

welleri Foerste

Foerste, A. F., 1930b: p. 44, pl. 6, figs. 2a, b.
Holotype 142779
Racine Dol. Illinois

Billingsites

landerensis Foerste

Foerste, A. F., 1935: p. 20, 21, pl. 1, figs. 4, 5.
Holotype 90901
Big Horn Fm. Wyoming

? *williamsportensis* Foerste

Foerste, A. F., 1924: p. 217, 218, pl. 35, figs. 2a-c.
Holotype 48395
Catheys Fm. Tennessee

Bitaunioceras

texanum Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1947: p. 4, pl. 1, fig. 15.
Holotype 120707
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

Brachycycloceras

curtum (Meek and Worthen)

Furnish, W. M., et al., 1962: p. 1349-1351, pl. 179, figs. 5-8, 11, 12; pl. 180, figs. 4-6.
Hypotypes 120837-120840
Finis Sh. Texas

Bridgeoceras

subannulatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 59, 60, pl. 54, figs. 7, 8.
Holotype 108266
Upper Ozarkian (float) Quebec, Canada

Buehleroceras

apertum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 61, pl. 35, figs. 9, 10; pl. 36, figs. 5, 6.
Holotype and paratype 108269, 108270
Gasconade Dol. Missouri

Unklesbay, A. G., 1954: p. 647, pl. 71, fig. 8.
Hypotype 123412
Tanyard Fm., Staendebach Mbr. Texas

compressum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 60, pl. 35, figs. 1-4.
Holotype and paratypes 108267a, b, 108268
Oneota Dol. Wisconsin

Buehleroceras--Continued

luthei Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 62, pl. 35, figs. 5, 6.
Paratype 108271
Oneota Dol. Wisconsin

modestum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 62, pl. 36, figs. 1-4.
Holotype and paratypes 108272a-c
Oneota Dol. Wisconsin

Burenoceras

angulare Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 65, 66, pl. 37, figs. 25, 26; text-fig. 4.
Holotype 108276
Van Buren Fm. Missouri

compressum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 66, pl. 37, figs. 4, 5.
Holotype 108277
Van Buren Fm. Missouri

Unklesbay, A. G., 1954: p. 639, pl. 68, figs. 5, 6.
Hypotype 123405
Tanyard Fm., Staendebach Mbr. Texas

curticei Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 67, 68, pl. 38, figs. 1-4.
Holotype 108278
Oneota Dol. Minnesota
Paratype 108279
Oneota Dol. Wisconsin

dickhauti Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 68, pl. 37, figs. 10, 11.
Holotype 108280
Van Buren Fm. Missouri

Unklesbay, A. G., 1954: p. 639, pl. 68, fig. 15
Hypotype 123406
Tanyard Fm., Threadgill Mbr. Texas

dilatatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 68, pl. 38, figs. 7, 8.
Holotype 108281
Ellenburger Ls., Gasconade Horiz. Texas

Burenoceras--Continued

dilatatum ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 68, 69.
Described specimens 108282a, b
Gasconade Horiz. Texas

expandum Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1931: p. 209, pl. 20, figs. 30, 31.
Holotype 83536
Van Buren Fm. Missouri

huzzahense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 69, pl. 37, figs. 23, 24.
Holotype 108283
Gasconade Dol. Missouri

minor Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 70, pl. 38, figs. 5, 6.
Holotype and paratype 108284, 108285
Oneota Fm. Wisconsin

oneotense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 70, 71, pl. 37, figs. 16, 17.
Holotype 108286
Oneota Dol. Wisconsin

oneotense ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 70, 71, pl. 37, figs. 14, 15.
Figured specimens 108287a, b
Ellenburger Ls. Texas

peramplum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 71, pl. 38, figs. 9-11.
Holotype 108288
Chepultepec Dol. Tennessee
Paratypes 108289a, b
Ellenburger Ls., Gasconade Horiz. Texas

percompressum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 71, 72, pl. 37, figs. 1-3.
Holotype 108290
Gasconade Dol. Missouri

planiseptatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 72, pl. 37, figs. 32-35.
Holotype and paratype 108291, 108292
Oneota Fm. Wisconsin

Burenoceras--Continued

pumilum Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1931: p. 208, pl. 20, figs. 32, 33.
Holotype and paratypes 83537, 108273-108275
Van Buren Fm. Missouri

Unklesbay, A. G., 1954: p. 638, 639, pl. 68, figs. 7, 8.
Hypotype 123404
Gorman Fm., Ellenburger Ls. ?,
Roubidoux Zn. Texas

texanum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 72, 73, pl. 37, figs. 6-9.
Holotype and paratype 108293a, b
Ellenburger Ls., Gasconade Horiz. Texas

Unklesbay, A. G., 1954: p. 640, pl. 68, fig. 3.
Hypotype 123407
Tanyard Fm., Staendebach Mbr. Texas

undosum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 73, pl. 37, figs. 20-22.
Holotype and paratype 108294a, b
Gasconade Dol. Missouri

ungulatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 73, 74, pl. 37, figs. 28, 29.
Holotype 108295
Oneota Dol. Wisconsin

ungulatum ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 73, 74, pl. 37, figs. 27, 30, 31.
Figured specimen 108296
Gasconade Dol. Missouri
Figured specimen 108297
Chepultepec Dol. Tennessee

sp.

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 450, pl. 39, figs. 26, 27.
Figured specimen 140100
Tanyard Fm., Staendebach Mbr. Texas

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 455, pl. 41, figs. 38, 39.
Figured specimen 140097
Gorman Fm. Texas

Burenoceras--Continued

? sp.

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 455, pl. 41, fig. 43.
Figured specimen 140095
Gorman Fm. Texas

Buttsoceras

adamsi (Butts)

Ulrich, E. O., et al., 1944: p. 63, 64, pl. 24, figs. 1, 4-11.
Hypotypes 109484-109489
Odenville Ls. Alabama

? *odenvillense* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 64, pl. 17, figs. 3-9.
Holotype and paratype 109490, 109491
Odenville Ls. Alabama

? *vandiverense* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 64, 65, pl. 17, figs. 10, 11.
Holotype 109492
Odenville Ls. Alabama

Byronoceras

commune Foerste

Foerste, A. F., 1930b: p. 89, pl. 16, figs. 4a, b.
Holotype and paratypes 81445, 81445a, b
Port Byron Dol. Illinois

longidomum Foerste and Savage

Foerste, A. F., and Savage, T. E., 1927: p. 82, 83, pl. 24, figs. 3a, b.
Holotype 81443
Niagaran, Port Byron Mbr. Illinois

transversale Foerste

Foerste, A. F., 1930b: p. 88, pl. 16, figs. 2a-c.
Holotype 81444
Port Byron Dol. Illinois

Cameroceras

callumettense Foerste

Foerste, A. F., 1924: p. 215, pl. 24, figs. 6a-e.
Syntypes 108488
Maquoketa Missouri

Cameroceras--Continued

? *faberi* Foerste

Foerste, A. F., 1930a: p. 302-305, pl. 63, fig. 2.
Holotype 87223
Richmond, Saluda Mbr., Hitz Layer Indiana

huzzahense Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1931: p. 211, pl. 21, fig. 14.
Syntypes 83544
Gasconade Dol. Missouri

proteiforme (Hall)

Schuchert, Charles, 1900: p. 169
Hypotype (holotype of Endoceras baffinense Foerste, 1928) 28191
Trenton Baffin Island, Canada

cf. *C. styliforme* Grabau

Endo, Riuji, 1932: p. 62, 63, pl. 31, figs. 2-4.
Figured specimen 83677
Santao Fm. Manchuria, China

trentonense Conrad

Foerste, A. F., 1924: p. 213-215, pl. 24, figs. 3-5.
Hypotypes 59449, 59450
Trenton Ls. New York

Ulrich, E. O., et al., 1944: p. 106, pl. 47, fig. 4.
Hypotype 109622
Trenton Ls. New York

sp.

Bassler, R. S., 1919: p. 321, 322, pl. 37, fig. 10.
Figured specimen 66189
Frederick Ls. Maryland

spp.

Bassler, R. S., 1919: pl. 35, fig. 15 (all but 2 specimens, top left).
Figured specimens 108478, 108479
Beekmantown Ls. Maryland

Campbelloceras

brevicameratum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 44, 45, pl. 19, figs. 1-5; pl. 20, figs. 2, 3; pl. 27, fig. 1.
Holotype and paratypes 101379
Powell Horiz. Virginia

Campbelloceras--Continued

brevicameratum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 44, 45, pl. 27, fig. 1.
Figured specimen 101380
Cotter Horiz. Virginia

Described specimen (*Eurystomites* or *Tarphyceras* sp. of Butts, 1926) 71455
Newala Ls. Alabama

hyatti Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 45, pl. 21, figs. 2, 3.
Holotype 25652
Cassin Ls. Vermont

virginianum (Hyatt)

Ulrich, E. O., et al., 1942: p. 44, pl. 18, figs. 4-8.
Hypotypes 3881, 101378
Cotter Horiz. Virginia

Caseoceras

conicum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 75, 76, pl. 40, figs. 56, 6.
Holotype and paratypes 108299a-f
Chepultepec Dol. Tennessee

contractum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 74, 75, pl. 39, figs. 1-4.
Holotype and paratype 108298a, b
Oneota Horiz. Michigan

holtedahli (Foerste)

Ulrich, E. O., et al., 1943: p. 76, pl. 39, fig. 7.
Plastoholotype (mentioned) 80110
? Upper Ozarkian *Orthoceras* Ls. Ellesmere Island, Canada

intermedium Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 77, pl. 40, figs. 7, 8.
Holotype 108300
Oneota Horiz. Michigan

nitidum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 77, 78, pl. 41, figs. 3-7.
Holotype and paratype 108301a, b
Oneota Horiz. Michigan

Caseoceras--Continued

nitidum ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 77, 78, pl. 41, figs. 1, 2.
Figured specimen 108302
Oneota Horiz. Missouri

? *sequatchiense* Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 78, pl. 39, figs. 5, 6.
Holotype 108303
Chepultepec Dol. Tennessee

subconicum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 78, 79, pl. 40, figs. 1, 2.
Holotype and paratype 108304a, b.
Gasconade Dol. Missouri

Unklesbay, A. G., 1954: p. 646, 647, pl. 68, fig. 17.
Hypotype 123411
Tanyard Fm., Threadgill Mbr. Texas

subconicum ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 78, 79, pl. 40, figs. 3, 4.
Figured specimen 108305
Gasconade Dol. Missouri

sp.

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 450, pl. 39, figs. 28, 29.
Figured specimen 140105
Tanyard Fm., Staendebach Mbr. Texas

Cloud, P. E., Jr., and Barnes, V. E., 1948: pl. 39, fig. 28.
Figured specimen 140106
Tanyard Fm., Threadgill Mbr. Texas

Cassinoceras

arkansasense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 38, pl. 15, fig. 3; pl. 16, figs. 1-3.
Holotype and paratype 108241a, b
Black Rock Fm. Arkansas

explanator (Whitfield)

Ulrich, E. O., et al., 1943: p. 35, 36, pl. 10, figs. 1, 2; pl. 11, fig. 1; pl. 12, fig. 1.
Hypotypes 25776, 59463, 59464, 108240, 108241
Cassin Ls. Vermont

Cassinoceras--Continued

grande Ulrich and Foerste

Ulrich, E. O., et al., 1943: p. 38, 39, pl. 5, fig. 12; pl. 6, figs. 9, 10; pl. 17, fig. 1; pl. 18, fig. 3; pl. 20, figs. 1, 2; pl. 21, fig. 6.

Holotype and paratypes	108242a-i
Cassin Fm.	Vermont
Paratypes	108243a, b.
Cassin Fm.	New York

? sp.

Ulrich, E. O., et al., 1943: p. 44, 45, pl. 5, figs. 5, 6.

Figured specimen	108245
Cotter Horiz.	Virginia

Catoraphiceras

cushingi Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 76, pl. 38, figs. 17, 18.

Holotype	109505
Cotter Horiz.	New York

foerstei (Butts)

Ulrich, E. O., et al., 1944: p. 76, 77, pl. 38, figs. 1-3, 11.

Hypotypes	109506-109509
Odenville Ls.	Alabama

lobatum Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 266, 267, pl. 38, fig. 14.

Holotype and paratypes	92684
Upper Powell or Smithville Fm.	Tennessee

osagense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 77, pl. 37, figs. 7, 8.

Holotype	109510
Cotter Dol.	Missouri

resseri ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 77, 78, pl. 37, figs. 4-6.

Holotype	109511
Sarbach Fm.	Alberta, Canada

vaginatum (Schlotheim)

Ulrich, E. O., et al., 1944: p. 75, pl. 34, figs. 1, 2.

Hypotype	109512
Vaginatenkalk	Estonia

267-454 O - 68 - 3

Centrocyrtoceras

americanum (D'Orbigny)

Foerste, A. F., 1933: p. 53
Hypotypes 59429
Black River Fm. New York

annulatus (Hall)

Butts, Charles, 1942: p. 100, pl. 92, fig. 25.
Hypotype 97495
Lowville Ls. Virginia

bondi (Safford)

Foerste, A. F., 1932, 1933: p. 49-51 (1933); pl. 28, fig. 1 (1932).
Hypotype 87117
Stones River Div.,
Murfreesboro Mbr. Tennessee

duplicostatum (Whitfield)

Foerste, A. F., 1926: p. 366, 367, pl. 43, fig. 5.
Hypotype 70827
Black River Ls., Platteville Mbr. Wisconsin

filosum Foerste

Foerste, A. F., 1932, 1933: p. 53 (1933), pl. 28, figs. 11a, b (1932).
Holotype 87036
Stones River Div., Ridley Mbr. Tennessee

? *percinctum* Foerste

Foerste, A. F., 1932, 1933: p. 48, 49 (1933), pl. 28, figs. 9a, b (1932).
Holotype and paratypes 48407
Stones River Div.,
Murfreesboro Mbr. Tennessee

relaxum Foerste

Foerste, A. F., 1932, 1933: p. 47, 48 (1933), pl. 28, fig. 4 (1932).
Holotype 48409
Stones River Div.,
Murfreesboro Mbr. Tennessee

ridleyense Foerste

Foerste, A. F., 1932, 1933: p. 51, 52 (1933), pl. 28, figs. 5a-d (1932).
Holotype and paratypes 48408
Ridley Ls. Tennessee

rotundum Foerste

Foerste, A. F., 1935: p. 27, 28, pl. 10, fig. 6.
Holotype 90906
Prosser Fm. Iowa

Centrocyrtoceras--Continued

vicinum Foerste

Foerste, A. F., 1932, 1933: p. 51 (1933), pl. 28, figs. 6a, b (1932).
Holotype and paratype 48406
Stones River Div., Ridley Mbr. Tennessee

Centrotarphyceras

alpheusi Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 51-53, text-fig. 13.
Syntype (? syntype of *Lituites farnsworthi Billings*, 1861) 101381
Naylor Ledge Ls ? Quebec, Canada

bridgei Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 56, pl. 31, figs. 1, 2.
Holotype 101395
Cotter Horiz. Virginia

macdonaldi (Hyatt)

Ulrich, E. O., et al., 1942: p. 53, 54, pl. 14, fig. 3; pl. 28, figs. 3-5; pl. 29, figs. 1, 2.
Hypotypes 101382-101384
Cotter Horiz. Virginia
Hypotype 97496
Powell Horiz. Virginia

cf. *C; macdonaldi* (Hyatt)

Ulrich, E. O., et al., 1942: p. 53, pl. 27, figs. 2, 3; pl. 36, figs. 1, 2; pl. 37, figs. 1-3.
Figured specimens 25651, 101385, 101386, 101387, 101388
Cotter Horiz. Virginia
Figured specimen 101389
Powell Horiz. Virginia

powersi Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 54, pl. 27, fig. 5.
Holotype 101390
Johns Valley Sh. Oklahoma

subundosum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 55, pl. 47, figs. 1-3.
Syntypes [hypotypes of *Tarphyceras champlainense* (Whitfield) in Hyatt, 1894] 101391(originally 25657)
Cassin Ls. Vermont

Centrotarphyceras--Continued

vellvillense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1942: p. 55, 56, pl. 14, fig. 4; pl. 30, fig. 1; pl. 55, figs. 1-3.
Holotype and paratypes 101393, 101394
Powell Fm. Arkansas

cf. *C. vellvillense* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1942: p. 55, 56, pl. 27, fig. 6.
Figured specimen 101392
Smithville Fm. Arkansas

Chadwickoceras

erectum Foerste

Foerste, A. F., 1930b: p. 96, pl. 18, figs. 2a, b.
Holotype 81448
Port Byron Dol. Illinois

Charactoceras

baeri (Meek and Worthen)

Foerste, A. F., 1924: p. 235-239, pl. 31, fig. 1; pl. 32, figs. 1a, b, pl. 34, figs. 1a, b; 2.
Hypotypes 81288
Richmond Fm., Whitewater Mbr. Ohio

? *canyonense* Foerste

Foerste, A. F., 1935: p. 84, 85, pl. 22, figs. 1-5.
Syntypes 90950, 90951
Fremont Fm. Colorado

schucherti Foerste

Foerste, A. F., 1928a: p. 61, 62, pl. 9, figs. 2a-c; pl. 27, figs. 4a-d.

Holotype (*Eurystomites plicatus* ? Whiteaves in Schuchert, 1900) 28123
Trenton age Baffin Land, Canada

Miller, A. K., et al., 1954: p. 113-115, pl. 49, fig. 3; pl. 56, figs. 1-4.
Hypotypes 124669, 124686
Upper Ordovician Sh. Baffin Island, Canada

Charactocerina

kirki Foerste

Foerste, A. F., 1935: p. 86-88, pl. 20, figs. 1-4.
Holotype 90952
Big Horn Fm. Wyoming

Charactocerina--Continued

multicamerata Foerste

Foerste, A. F., 1935: p. 88, 89, pl. 21, figs. 1, 2.
Holotype 90955
Big Horn Fm. Wyoming

Clarkoceras

affine Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 81, pl. 29, figs. 3, 4.
Holotype 108311
Gasconade Dol. Missouri

arcuatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 81, 82, pl. 43, figs. 11, 14, 15.
Holotype and paratypes 108312a-d, 108313
Gasconade Dol. Missouri

arcuatum ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 81, 82, pl. 43, figs. 12, 13.
Figured and described specimens 108314; 108315a, b
Oneota Dol. Wisconsin

buttsi Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 82, 83, pl. 44, figs. 6, 7; text-fig. 6.
Holotype 97285
Chepultepec Dol. Tennessee

cf. *C. calvini* Ulrich, Foerste, and Miller

Cloud, P. E., Jr., and Barnes, V. E., 1948: pl. 39, fig. 25.
Figured specimen 140098
Tanyard Fm., Staendebach Mbr. Texas

cinctum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 84, pl. 48, figs. 10, 11.
Holotype 108316
Gasconade Dol. Missouri

confertum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 85, 86, pl. 49, figs. 3, 4.
Holotype 108317
Gasconade Dol. Missouri

crassum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 86, 87, pl. 22, figs. 1, 2.
Holotype 108318
Gasconade Dol. Missouri

Clarkoceras--Continued

cuneatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 87, 88, pl. 50, figs. 3-5; text-fig. 9.
Holotype 108319
Gasconade Dol. Missouri

Cloud, P. E., Jr., and Barnes, V. E., 1942: p. 450, pl. 39, fig. 24.
Hypotype 140096
Tanyard Fm., Staendebach Mbr. Texas

curvatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 88, pl. 46, figs. 9, 10.
Holotype 108320
Chepultepec Dol. Tennessee

expansum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 89, pl. 51, figs. 5, 6.
Holotype 108321
Oneota Dol. Wisconsin

gracile Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 89, 90, pl. 43, figs. 5-8.
Holotype and paratypes 108322a, b-108324
Oneota Dol. Minnesota

gracile ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 89, 90.
Described specimen 108325
Oneota Dol. Wisconsin

huzzahense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 90, pl. 43, figs. 9, 10.
Holotype 108326
Gasconade Dol. Missouri

inconstans Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 90, 91, pl. 46, fig. 1.
Holotype 108327
Gasconade Dol. Missouri

inconstans ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 90, 91, pl. 46, fig. 2.
Figured specimen 108328
Ellenburger Ls., Gasconade Horiz. Texas

Clarkoceras--Continued

jasperense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 91, pl. 45, figs. 6, 7.
Holotype (in part a plastoholotype) 108329
Chepultepec Dol. Tennessee

luthei (Calvin)

Ulrich, E. O., et al., 1943: p. 93, 94, pl. 47, figs. 3, 4, 8, 9; pl. 48, fig. 4.
Hypotypes 108330-108334
Oneota Fm. Wisconsin

magnisiphonatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 94, pl. 50, figs. 1, 2.
Holotype 108335
Gasconade Fm. Missouri

Unklesbay, A. G., 1954: p. 645, pl. 69, fig. 5.
Hypotype 123410
Tanyard Fm., Threadgill Mbr. Texas

minneiskense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 94, 95, pl. 48, fig. 9; text-fig. 11.
Holotype 108336
Oneota Dol. Minnesota

modestum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 95, 96, pl. 46, figs. 4, 5.
Holotype 108337
Gasconade Dol. Missouri

multicameratum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 96, 97, pl. 46, fig. 8.
Holotype 108338a
Gasconade Dol. Missouri

multicameratum ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 96, 97, pl. 46, figs. 6, 7.
Figured specimen 108339
Oneota Dol. Wisconsin
Mentioned specimens 108338b, 108340, 108341
Gasconade Dol. Missouri

newton-winchelli (Clarke)

Ulrich, E. O., et al., 1943: p. 80, 81, pl. 42, fig. 6-8, 12.
Hypotypes 108306, 108308
Oneota Fm. Minnesota

Clarkoceras--Continued

newton-winchelli (Clarke)

Unklesbay, A. G., 1954: p. 642, pl. 69, fig. 7.
Hypotype 123409
Tanyard Fm., Staendebach Mdr. ? Texas

newton-winchelli ? (Clarke)

Ulrich, E. O., et al., 1943: p. 80, 81, pl. 42, fig. 10.
Figured and mentioned specimens 108307, 108310
Chepultepec Dol. Alabama
Mentioned specimen 108309
Gasconade Dol. Missouri

parvisiphonatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 97, pl. 44, fig. 5.
Holotype 108342
Chepultepec Dol. Tennessee

rectum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 97, pl. 21, fig. 4.
Holotype 108343
Gasconade Dol. Missouri

ruguliferum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 97, 98, pl. 46, fig. 3.
Holotype 108344
Ellenburger Ls., Gasconade Horiz. Texas

subarcuatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 98, pl. 48, figs. 5-8.
Holotype and paratype 108345, 108346
Gasconade Fm. Missouri

subcrassum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 98, 99, pl. 51, figs. 1-4.
Holotype and paratype 108347a, b
Gasconade Fm. Missouri

subcrassum ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 98, 99.
Described specimens 108348
Gasconade Fm. Missouri

subrectum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 99, 100, pl. 49, figs. 1, 2.
Holotype 108349
Gasconade Fm. Missouri

Clarkoceras--Continued

vicinum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 100, pl. 43, figs. 1-4.
Holotype and paratype 108350a
Gasconade Fm. Missouri

whitehallense Ulrich, Foerste, and Miller

Ulrich E. O., et al., 1943: p. 100, 101, pl. 51, figs. 7, 8.
Holotype 108351
Chepultepec equivalent ? New York

sp.

Ulrich, E. O., et al., 1943: p. 101, pl. 45, figs. 3-5.
Figured specimen 108352
Mons Fm. Alberta, Canada

Clelandoceras

breve Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 135, pl. 3, figs. 6, 7.
Holotype 109621
Smithville Fm. Arkansas

elongatum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 134, 135, pl. 3, figs. 8-10.
Holotype and paratypes 109618-109620
Smithville Fm. Arkansas

Clinoceras

exiguum (Billings)

Schuchert, Charles, 1900: p. 171.
Hypotypes (syntypes of *Whitfieldoceras baffinense* Foerste, 1932, 1933, in part) 28199
Trenton Baffin Island, Canada

Clionyssiceras

petilum Foerste

Foerste, A. F., 1930b: p. 40, 41, pl. 5, figs. 5a, b.
Holotype 81427
Port Byron Dol. Illinois

Clitendoceras

mesleri Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 109, pl. 54, figs. 2-6.
Holotype and paratypes 109566, 109567
Powell Dol. Missouri

Clitendoceras--Continued

saylesi Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 268, pl. 38, fig. 1.
Holotype 92685
Fort Cassin Fm. New York

? sp.

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 455, pl. 41, fig. 46.
Figured specimen 140108
Gorman Fm. Texas

? *Clitendoceras or ? Mcqueenoceras*

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 455, pl. 41, fig. 44.
Figured specimen 140099
Gorman Fm. Texas

Clytoceras

capax Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 25, 26, pl. 5, fig. 1; pl. 6, figs. 2-4; text-fig. 1j.
Holotype and paratypes 101342
Powell Fm. Arkansas

Coelonautilus

gratiosus Girty

Girty, G. H., 1909a: p. 50, pl. 5, figs. 1, 1a, b.
Holotype and paratype 119583, 119584
Caney Sh. Oklahoma

Coloceras

liratum Girty

Girty, G. H., 1911b: p. 144.
Syntypes 120679, 120681, 120683, 120687
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 237, pl. 28, figs. 2-4, 6a.
Syntypes 120679, 120681, 120683, 120687
Wewoka Fm. Oklahoma

liratum ? Girty

Girty, G. H., 1915a: p. 336, pl. 28, fig. 5.
Figured specimen 120682
Wewoka Fm. Oklahoma

Coloceras--Continued

liratum obsoletum Girty

Girty, G. H., 1911a: p. 145.
Syntypes 121120, 121121
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 238, 239, pl. 29, figs. 2, 3, 3a.
Syntypes 121120, 121121
Wewoka Fm. Oklahoma

liratum obsoletum ? Girty

Girty, G. H., 1915a: p. 338, pl. 29, figs. 1, 1a, b.
Figured specimen 120680
Wewoka Fm. Oklahoma

mexicanum Girty

Girty, G. H., 1909b: p. 113, pl. 12, figs. 1, 1a, b.
Holotype 119418
Yeso Fm. New Mexico

Conocerina

arrecta Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 102, pl. 52, figs. 1-4.
Holotype 108353
Gasconade Dol. Missouri
Paratypes 108354a-f
Ellenburger Ls., Gasconade Horiz. Texas

? *bassleri* Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 103, pl. 52, figs. 9-12.
Holotype and paratype 108355a, b
Chepultepec Dol. Maryland

beani ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 103, pl. 53, figs. 7-12.
Figured specimen 108356
Gasconade Dol. Missouri
Figured specimen 108357
Arbuckle Ls. Oklahoma
Figured specimen 108358
Chepultepec Dol. Maryland

brevis Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 269, pl. 38, fig. 5.
Holotype and paratype 92686, 92686a
Gasconade Fm. Missouri

Conocerina--Continued

cloudi Unklesbay

Unklesbay, A. G., 1954: p. 642, pl. 68, fig. 20.
Holotype 123408
Tanyard Fm., Staendebach Mbr. Texas

magna Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 104, pl. 52, figs. 7, 8.
Holotype 108359
Ellenburger Ls., Gasconade Horiz. Texas

missouriensis Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 104, pl. 52, figs. 13, 14.
Holotype 108360
Gasconade Dol. Missouri

obliqua Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 105, pl. 52, figs. 15, 16.
Holotype 108361
Chepultepec Dol. Tennessee

raaschi ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 105, 106.
Described specimen 108362
Ellenburger Ls., Gasconade Horiz. Texas

sublonga Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 106, pl. 52, figs. 5, 6.
Holotype 108363
Gasconade Fm. Missouri

Cooperoceras

texanum Miller

Miller, A. K., 1945: p. 292, pl. 44, figs. 3, 4; text-fig. 1.
Holotype 111621
Word Fm. Texas

Miller, A. K., and Youngquist, Walter, 1949: p. 118, 119, pl. 1, fig. 1; pl. 40, figs. 6-9; pl. 41, figs. 1-4; pl. 49, figs. 1, 2; pl. 50, figs. 1, 2; pl. 51, figs. 1, 2; pl. 52, figs. 1, 2.
Hypotypes 121110-121113, 121115, 121116
Upper Leonard Fm. Texas
Hypotypes 121114
Bone Spring Ls. Texas

Copiceras

erectum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 65, pl. 25, figs. 2-5; pl. 26, figs. 5, 6.
Holotype and paratypes 109493-109495
Smithville Fm. Arkansas

Cotteroceras

buttsi Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 112, pl. 21, figs. 7, 8.
Holotype 109570
Cotter Horiz. Virginia

compressum Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 270, pl. 38, fig. 10.
Holotype and paratype 92687
Cotter Fm. Missouri

Ulrich, E. O., et al., 1944: p. 111, pl. 55, figs. 1-5; pl. 56, figs. 1-6; pl. 57, figs. 1, 3.
Hypotypes 109568, 109569
Cotter Dol. Missouri

cullisoni Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 112, pl. 11, figs. 18, 19.
Holotype 109571
Cotter Dol. Missouri

gregeri Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 113, pl. 11, figs. 16, 17.
Holotype 109572
Roubidoux Fm. Missouri

spp. and sp.

Ulrich, E. O., et al., 1944: p. 111, pl. 11, figs. 13-15; pl. 54, fig. 7, pl. 56, figs. 7, 8; pl. 57, figs. 4-13; pl. 58, figs. 1-7.
Figured specimens 109573
Cotter Dol. Missouri

? sp. (for laterally compressed *Cyptendoceras)*

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 459, pl. 43, fig. 41.
Figured specimen 116715
Honeycut Fm. Texas

Cumberloceras

buttsi Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 107, 108, pl. 54, figs. 1, 2.
Holotype 108364
Longview Ls. Tennessee

Cumberloceras--Continued

elwayense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 107, pl. 54, figs. 5, 6.
Holotype 108365
Longview Ls. Virginia

sp.

Ulrich, E. O. et al., 1943: p. 108, pl. 54, figs. 3, 4.
Figured specimen 108366
Jefferson City Dol. Missouri

Curtoceras

eatoni (Whitfield)

Ulrich, E. O., et al., 1942: p. 70, 71.
Hypotype [hypotype of *Schroederoceras cassinense* (Whitfield) in Hyatt, 1894] 25661
Cassin Ls. Vermont

interastriatum (Whitfield)

Ulrich, E. O., et al., 1942: p. 72-74, pl. 39, fig. 2; text-fig. 21.
Hypotype 101408
Upper Canadian Pennsylvania
Hypotypes 25662, 25663
Cassin Ls. Vermont

Cyclendoceras

spp.

Miller, A. K., et al., 1954: p. 51, 52, pl. 19, figs. 3, 4.
Figured specimens 124688a, b
Upper Ordovician Baffin Island, Canada

Cycloceras

aokii Endo

Endo, Riuji, 1932: p. 70, 71, pl. 14, fig. 7.
Holotype 83691
Ssuyen Fm. Manchuria, China

austini Foerste

Foerste, A. F., 1928c: p. 269, pl. 56, fig. 1; pl. 75, fig. 6.
Holotype 82117
Cedarville Dol. Ohio

ballianum Girty

Girty, G. H., 1909a: p. 47, 48, pl. 6, figs. 15, 15a.
Holotype 119576
Caney Sh. Oklahoma

Cycloceras--Continued

inceptum (Foerste)

Butts, Charles, 1941: p. 135, pl. 102, figs. 3-5.
Hypotypes 97614a-c
Brassfield Horiz. Tennessee

junciforme Foerste

Foerste, A. F., 1928c: p. 270, 271, pl. 56, figs. 3, 4.
Syntypes 82164
Cedarville Dol. Ohio

louderbacki Endo

Endo, Riuji, 1932: p. 69, 70, pl. 36, fig. 16.
Holotype 83690
Upper Ordovician Sensi, China

? *manchuriense* Endo

Endo, Riuji, 1932: p. 68, 69, pl. 13, figs. 10-12, pl. 14, figs. 8, 9, 12; pl. 17, fig. 7.
Holotype and paratypes 83688, 83689
Ssuyen Fm. Manchuria, China

? *marginale* Endo

Endo, Riuji, 1932: p. 71, pl. 27, fig. 5; pl. 40, fig. 11.
Holotype 83692
Wuting Fm. Manchuria, China

? *peitoutzense* Grabau

Endo, Riuji, 1932: p. 72, 73, pl. 14, figs. 3, 4.
Hypotype 83694
Ssuyen Fm. Manchuria, China

? *shensiense* Endo

Endo, Riuji, 1932: p. 71, 72, pl. 37, figs. 4, 5; pl. 38, fig. 4.
Holotype 83693
Upper Ordovician Shensi, China

sp.

Gordon, Mackenzie, Jr., 1957: p. 22, pl. 2, fig. 11.
Figured specimen 118933
Lisburne Gr., Kayak Sh. Alaska

Foerste, A. F., 1928: p. 271, pl. 57, figs. 2, 6, 7.
Figured specimens 14279a-c
Port Byron Mbr. Illinois

Cycloplectoceras

funatum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 34, 35, pl. 12, figs. 7, 8; text-fig. 1e.
Holotype 101370
Cotter Fm. Missouri

funatum ? Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 34, 35, pl. 12, fig. 6.
Figured specimen 101371
Black Rock Fm. Arkansas

miseri Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 34, pl. 11, figs. 1-11; pl. 12, fig. 9.
Holotype and paratypes 101367, 101368
Smithville Fm. Arkansas

miseri ? Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 34, pl. 11, figs. 12-14.
Figured specimen 101369
Upper Canadian Oklahoma

? spp.

Ulrich, E. O., et al., 1942: p. 35, pl. 39, fig. 1
Described specimens 101372
Jefferson City Fm. Missouri
Figured specimen 101373
Manitou Fm. Colorado

Cyclostomiceras

cassinense (Whitfield)

Ulrich, E. O., et al., 1943: p. 55, pl. 31, figs. 1-7; pl. 32, fig. 1; text-fig. 3b.
Hypotypes 108258a, b; 108259a-d
St. Armand Ls. Quebec, Canada
Hypotypes 59456a, b
Cassin Ls. Vermont

depressum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 57, pl. 33, figs. 1-12; pl. 34, figs. 5, 6.
Syntypes 108260a, b-108265
Smithville Fm. Arkansas

minimum (Whitfield)

Ulrich, E. O., et al., 1943: p. 57, 58, pl. 32, fig. 2, 3, 7-9; text-fig. 3a.
Hypotypes 59457
Cassin Ls. Vermont

Cyptendoceras

bridgei Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 144, pl. 59, figs. 10, 11.
Holotype 109574
Jefferson City Dol. Missouri

campbelli Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 114, pl. 58, figs. 8-10.
Holotype and paratype 109575, 109576
Cotter Horiz. Virginia

depressum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 115, pl. 59, figs. 1-6.
Holotype and paratypes 109577, 109578
Powell Dol. Arkansas

genevievense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 115, pl. 38, figs. 15, 16.
Holotype 109579
Powell Dol. Missouri

mesleri Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 115, pl. 38, figs. 12-14; pl. 60, figs. 4, 5.
Holotype and paratype 109580, 109581
Powell Dol. Missouri

ruedemanni Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 270, 271, p. 38, fig. 15.
Holotype 92688
Fort Cassin Fm. Vermont

wellsense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 116, pl. 60, figs. 6, 7.
Holotype 109582
Powell Horiz. ? Tennessee

Cyrtendoceras

estoniense Foerste

Foerste, A. F., 1932: p. 168, 169, pl. 2, figs. 3a, b; text-fig. 2.
Holotype 84672
Kunda Fm. Estonia

267-454 O - 68 - 4

Cyrtoceras

baffinensis Schuchert

Schuchert, Charles, 1900: p. 171, pl. 14, figs. 11-13.

Holotype	28198
Trenton	Baffin Land, Canada

cambria Walcott

Walcott, C. D., 1905: p. 22.

Syntypes	57821; 109614-109617
Chaumitien Ls.	Shantung, China

Kobayashi, Teiichi, 1935: p. 19, 20.

Lectotype (of *Plectronoceras cambria)*	57819
Chaumitien Ls.	Shantung, China

cessator Hall and Whitfield

Hall, James, and Whitfield, R. P., 1877: p. 278, pl. 6, fig. 15.

Holotype (not located)	14178
Lower Carboniferous	Nevada

cinctutus Foerste

Foerste, A. F., 1909: p. 61, 62, pl. 3, figs. 3a, b.

Syntypes	87011
Osgood Bd.	Tennessee

Foerste, A. F., 1930b: p. 60-62, pl. 25, fig. 7.

Lectotype and paratypes (of *Lechritrochoceras ? cinctutum)*	87011
Osgood Mbr.	Tennessee

clintonense Foerste

Foerste, A. F., 1893b: p. 534, pl. 36, figs. 2a-e.

Syntype	88650
Clinton Gr., "Brassfield Beds" (on label)	Ohio
Syntype	111749
Clinton Gr., "Big Horn Ls." (on label)	"Browns Quarry" (Ohio ?)

cornulum Schuchert

Schuchert, Charles, 1900: p. 170, 171, pl. 14, figs. 8-10.

Holotype and paratypes	28121
Trenton	Baffin Island, Canada

dactyloides Dwight

Dwight, W. B., 1894: p. 255, 256, pl. 7, figs. 9, 9a.

Holotype	109453
Calciferous Ledge D	New York

Cyrtoceras--Continued

cf. *C. depressum* Brown

Foerste, A. F., 1926: p. 337, 338, pl. 46, figs. 1a, b.
Figured specimen 34047
Middle Devonian Eifel, Germany

expansum Kindle

Kindle, E. M., 1901: p. 743, pl. 26, fig. 1.
Holotype 62212
Jeffersonville Ls. Indiana

gracilis Cleland

Cleland, H. F., 1903: p. 39, pl. 3, fig. 11.
Syntypes 85186a-d
Calciferous, Tribes Hill Ls. New York

Ulrich, E. O., et al., 1943: p. 121, pl. 57, figs. 26, 27.
Lectotype and paratypes [of *Ectenoceras ? gracile* (Cleland)] 85186
Calciferous, Tribes Hill Ls. New York

hitzi Foerste

Foerste, A. F., 1910: p. 78, pl. 1, fig. 7a, b; pl. 2, figs. 23a-c.
Holotype 78818
Saluda Bed, Hitz Layer Indiana

lineatum Goldfuss

Teichert, Curt, 1933: p. 201, text-fig. 46.
Hypotype 34047
No stratigraphic data given Germany

manitobense Whiteaves

Schuchert, Charles, 1900: p. 170.
Hypotypes (*Westonoceras* cf. *W. iowense* Foerste and Teichert, 1930) 33061
Trenton Akpatok Island, Canada

minneapolis Clarke

Clarke, J. M., 1897: p. 808, 809, pl. 59, figs. 7, 8.
Syntype 46525
Trenton Ls. Minnesota

nevadense Walcott

Walcott, C. D., 1884: p. 203, pl. 17, figs. 7, 7a.
Holotype 13987
Devonian Ls. Eureka District, Nevada

Cyrtocedras--Continued

peculiare Girty

Girty, G. H., 1911b: p. 149.
Holotype 120688
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 246, 247, pl. 28, figs. 1, 1a, 1b.
Holotype 120688
Wewoka Fm. Oklahoma

rectum Whitfield

Whitfield, R. P., 1878: p. 85, 86.
Holotype 135951
Guelph Ls. Wisconsin

Whitfield, R.P., 1882: p. 319, pl. 24, figs. 6-8.
Holotype 135951
Guelph Ls. Wisconsin

(Glyptoceras) subcompressum Beecher

Foerste, A. F., 1893: p. 535, pl. 32, figs. 7a-d; fig. 3 on pl. on p. 536.
Hypotypes 125275, 125276
Clinton Gr. Ohio

thompsoni Miller

Miller, S. A., 1894: p. 323, pl. 10, figs. 7, 8.
Holotype 64334
Hudson River Gr. Indiana

? ? sp.

Girty, G. H., 1915a: p. 247, pl. 32, figs. 4, 4a, 5, 5a.
Figured specimens 120691, 121122
Wewoka Fm. Oklahoma

Cyrtocerina

crenulata Flower

Flower, R. H., 1952: p. 28, pl. 8, figs. 17, 18.
Holotype 114336 (formerly 15685: preoccupied)
Platteville Fm. Wisconsin

foerstei Flower

Flower, R. H., 1952: p. 29, pl. 8, figs. 1, 2.
Holotype and paratype 114337, 114338
Kimmswick Ls. Missouri

Cyrtocerina--Continued

kimmswickense Flower

Flower, R. H., 1952: p. 28, 29, pl. 8, figs. 3-5, 9, 10.
Holotype and paratype 114339, 114340
Kimmswick Ls. Missouri

? *schoolcrafti* Clarke

Clarke, J. M., 1897: p. 774, pl. 47, figs. 12-14.
Holotype 46526
Trenton Sh. Minnesota

Cyrtogomphoceras

contractum Foerste

Foerste, A. F., 1935: p. 77, 78, pl. 15, figs. 1-3.
Holotype 90945
Fremont Fm. (Big Horn Fm., Lander Ss. on expl. to pl. 15) Colorado

landerense Foerste

Foerste, A. F., 1935: p. 74, 75, pl. 15, fig. 5.
Holotype and paratype 90940
Big Horn Fm., Lander Ss. Mbr. Wyoming

minor Foerste

Foerste, A. F., 1935: p. 78, 79, pl. 15, fig. 4.
Holotype 90946
Big Horn Fm. Wyoming

perexpansum Foerste

Foerste, A. F., 1935: p. 73, 74, pl. 13, fig. 1.
Holotype 90939
Big Horn Fm., Lander Ss. Mbr. Wyoming

popoagiense Foerste

Foerste, A. F., 1935: p. 75, 76, pl. 14, figs. 3, 4.
Holotype and paratype 90941, 90942
Big Horn Fm. Wyoming

rotundum Miller

Foerste, A. F., 1935: p. 76, pl. 14, fig. 1.
Hypotype 90943
Big Horn Fm. Wyoming

vicinum Foerste

Foerste, A. F., 1935: p. 76, 77, pl. 14, fig. 2.
Holotype 90944
Big Horn Fm. Wyoming

Cyrtogomphoceras--Continued

sp.

Miller, A. K., et al., 1954: p. 108, pl. 43, figs. 4, 5.
Figured specimen 125230
Upper Ordovician Sh. Baffin Island, Canada

Cyrtorizoceras

auctidomum Foerste

Foerste, A. F., 1930b: p. 36, pl. 2, figs. a, b.; 4.
Holotype and paratype 81425, 81425a
Port Byron Dol. Illinois

barbense Foerste

Foerste, A. F., 1936a: p. 54.
Paratype 92810
Gascons Fm. Quebec, Canada

byronense Foerste

Foerste, A. F., 1930b: p. 35, pl. 2, figs. 2a-c.
Holotype 81424
Port Byron Dol. Illinois

byronense ? Foerste

Foerste, A. F., 1930b: p. 35
Described specimen 81424a
Port Byron Dol. Illinois

cedarvillense Foerste

Foerste, A. F., 1934: p. 119, 120, pl. 29, fig. 5.
Holotype 81924
Cedarville Dol. Ohio

diagonale Foerste

Foerste, A. F., 1936a: p. 52, 53, pl. 25, figs. 5, 6.
Holotype and paratypes 92796, 92796a, 92809
Gascons Fm. Quebec, Canada

falciforme Foerste

Foerste, A. F., 1934: p. 120, 121, pl. 29, fig. 1c.
Syntypes 82172a
Cedarville Dol. Ohio

fosteri (Hall)

Foerste, A. F., 1930b: p. 28-31, pl. 3, figs. 1a, b; pl. 4, figs. 3, 4.
Hypotype 81423
Port Byron Dol. Illinois
Hypotypes 82171
Cedarville Dol. Ohio

Cyrtorizoceras--Continued

fosteri (Hall)--Continued

Foerste, A. F., 1934: p. 122, pl. 29, fig. 4b.
Hypotype 82171b
Cedarville Dol. Ohio

gasconsense Foerste

Foerste, A. F., 1936a: p. 55, 56, pl. 24, fig. 6.
Holotype 92797
West Point Ls. Quebec, Canada

? *hyattianum* Girty

Girty, G. H., 1909a: p. 49, pl. 10, figs. 1, 1a, b.
Holotype 119579
Caney Sh. Oklahoma

longidomum Foerste

Foerste, A. F., 1930b: p. 36, 37, pl. 4, figs. 1a, b.
Holotype 81426
Port Byron Dol. Illinois

Dakeoceras

corniculum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 109, 110, pl. 56, figs. 12, 13.
Holotype 108369
Van Buren Fm. Missouri

dilatatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 110, pl. 56, figs. 1-5.
Holotype and paratypes 108370, 108371a-d - 108373
Van Burean Fm. Missouri

divergens Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 111, pl. 56, figs. 6, 7.
Holotype and paratype 108374a
Van Buren Fm. Missouri

magnisiphonatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 111, pl. 56, figs. 10, 11.
Holotype 108375
Van Buren Fm. Missouri

normale Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1931: p. 210, pl. 20, fig. 29.
Holotype and paratypes 83534, 83556, 108367
Van Buren Fm. Missouri

Dakeoceras--Continued

normale--Continued

Ulrich, E. O., and Foerste, A. F., 1943: p. 109
Hypotypes 108368
Van Buren Fm. Missouri

cf. *D. normale* Ulrich and Foerste

Unklesbay, A. G., 1954: p. 638, pl. 70, fig. 10.
Figured specimen 123403
Tanyard Fm., Strendebach Mbr. Texas

perretrorsum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 111, 112, pl. 55, figs. 16-19.
Holotype and paratypes 108376a, b - 108378
Van Buren Fm. Missouri

retrorsum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 112, pl. 55, figs. 12-15.
Holotype and paratypes 108379a-d
Van Buren Fm. Missouri

reversum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 113, pl. 55, figs. 5, 6.
Holotype 108380
Gasconade Dol. Missouri

separatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 113, pl. 55, figs. 25, 26.
Holotype 108381
Gasconade Dol. Missouri

subcurvatum Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1931: p. 210, pl. 20, figs. 27, 28.
Holotype (*Quebecoceras* ? sp. of Butts, 1926, fig. 5) and paratype 83535, 108382
Van Buren Fm. Missouri

undulatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 114, pl. 55, figs. 20-24.
Holotype and paratype 108383a, b
Van Buren Fm. Missouri

vernonense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 114, 115, pl. 55, figs. 3, 4.
Holotype and paratype 108384a
Oneota Dol. Wisconsin

Dakeoceras--Continued

sp. --Continued

Butts, Charles, 1941: p. 19, pl. 68, fig. 4.
Figured specimen 97287
Chepultepec Ls. Virginia

? sp.

Butts, Charles, 1941: p. 19, pl. 68, fig. 3.
Figured specimen 97286
Chepultepec Ls. Virginia

spp.

Ulrich, E. O., et al., 1943: p. 115, 116, pl. 55, figs. 1, 2; pl. 56, figs. 8, 9.
Figured specimens 108385, 108386
Ellenburger Ls., Gasconade Horiz. Texas

Dawsonoceras

americanum (Foord)

Foerste, A. F., 1928a: p. 34, pl. 5, figs. 2-4; pl. 28, figs. 4a, b.
Hypotypes 67061, 67239
Niagara Div. Osgood Mbr. Indiana

Foerste, A. F., 1928a: p. 34, pl. 5, fig. 4.
Hypotype 10400
Niagara Dol., Rochester Sh. Mbr. New York

Foerste, A. F., 1928c: p. 279, pl. 61, fig. 5.
Hypotype 67239
Osgood Fm. Indiana

nodocostatum (McChesney)

Foerste, A. F., 1928c: p. 276-278, pl. 58, figs. 3a, b;
Plastoholotype (figured) 81939
Cedarville Dol. Ohio

nodocostatum ? ("intermediate between *D. nodocostatum* and *D. granti* Foerste")

Foerste, A. F., 1928c: p. 276-278, pl. 59, fig. 1.
Figured specimen 67241
Racine Dol. Illinois

sp.

Foerste, A. F., 1936a: p. 44, pl. 9, fig. 3.
Figured and described specimens 92793, 92793a
Gascons Fm. Quebec, Canada

Deckeroceras

adaense Foerste

Foerste, A. F., 1935: p. 93, pl. 21, fig. 4.
Holotype 94474
Fernvale Fm. Oklahoma

Deiroceras

capitolense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 295, pl. 46, fig. 2; pl. 58, fig. 3.
Holotype and paratype 82243
Trenton, Catheys, or Bigby Ls. Tennessee

curdsvillense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 294, pl. 46, figs. 3a, b; pl. 58, fig. 6.
Holotype 48221
Trenton Ls., Curdsville Mbr. Kentucky

dismukesense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 295, pl. 44, figs. 3a-c; pl. 58, fig. 4.
Holotype 48270
Richmond Tennessee

nashvillense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 296, pl. 44, fig. 2; pl. 58, fig. 8.
Holotype 82231
Catheys Ls. Tennessee

richteri Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 294, pl. 43, fig. 2; pl. 58, fig. 5.
Holotype 82228
Trenton Ls., Prosser Mbr. Missouri

Diaphoroceras

avaense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 43, 44, pl. 9, figs. 4, 5.
Holotype 109450
Jefferson City Dol. Missouri

buffaloense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 44, 45, pl. 9, figs. 1-3.
Holotype and paratype 109451
Cotter Dol. Missouri

Diaphoroceras--Continued

sp.

Ulrich, E. O., et al., 1944: p. 45, pl. 9, fig. 6.
Figured specimen 109452
Cotter Horiz. Oklahoma

Diestoceras

curtum Foerste

Foerste, A. F., 1935: p. 68, 69, pl. 20, fig. 5.
Holotype 90937
Big Horn Fm. Wyoming

fremontense Foerste

Foerste, A. F., 1935: p. 64, 65, pl. 11, fig. 3.
Holotype 90932
Big Horn Fm. Wyoming

indianense (Miller and Faber)

Foerste, A. F., 1924: p. 263-265, pl. 25, figs. 1a, b.
Hypotype 81287
Richmond Fm., Whitewater Mbr. Ohio

kirki Foerste

Foerste, A. F., 1935: p. 65, 66, pl. 11, fig. 2.
Holotype 90933
Big Horn Fm. Wyoming

cf. *D. landerense* Miller

Foerste, A. F., 1935: p. 64, pl. 11, fig. 1.
Figured specimen 90931
Big Horn Fm. Wyoming

magister Foerste

Foerste, A. F., 1935: p. 62-64, pl. 9, fig. 1; pl. 10, fig. 1.
Holotype and paratypes 90929, 90930a, b
Big Horn Fm., Lander Ss. Mbr. Wyoming

occidentale Foerste

Foerste, A. F., 1935: p. 67, 68, pl. 12, figs. 3-6; pl. 22, fig. 8.
Holotype and paratype 90935, 90936
Fremont Fm. Colorado

schucherti Foerste

Foerste, A. F., 1928a: p. 103, 104, pl. 1, figs. 1a-d.
Holotype (*Poterioceras* sp. of
Schuchert, 1900) 28122
Trenton, Richmond ? Baffin Island, Canada

Diestoceras--Continued

shideleri Foerste

Foerste, A. F., 1924: p. 266, 267, pl. 27, figs. 1a, b.
Holotype 81286
Richmond Fm., Whitewater Mbr. Ohio

walcotti Foerste

Foerste, A. F., 1935: p. 66, 67, pl. 12, figs. 7-9.
Holotype 90934
Fremont Fm. Colorado

Discitoceras

texanum Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1948: p. 654, 655, pl. 64, fig. 6.
Holotype 112986
Barnett Fm. Texas

Discoceras

aff. *D. canadense* (Whiteaves)

Miller, A. K., et al., 1956: p. 116, 117, pl. 58, fig. 7; text-fig. 17.
Figured specimen 124665
Upper Ordovician Sh. Baffin Island, Canada

sp.

Miller, A. K., et al., 1954: p. 117, 118, pl. 58, figs. 8-10; text-fig. 18.
Figured specimen 124610
Upper Ordovician Sh. Baffin Island, Canada

Discosorus

austini Foerste

Foerste, A. F., 1934: p. 174, 175, pl. 34, figs. 1a, b, 4a-c; pl. 35, fig. 5; pl. 37, fig. 4.
Holotype and paratypes 89824, 89825, 81921a, b, 81922
Clinton Gr., Dayton Ls. Mbr. Ohio

conoideus Hall

Whitefield, R. P., 1882: p. 299, pl. 20, fig. 6.
Hypotype 136801
Niagara Gr. Wisconsin

? *lyonsense* Foerste

Foerste, A. F., 1934: p. 178, 179, pl. 34, figs. 2a, b.
Holotype 7786
Hopkinton Dol. Mbr. Iowa

Discosorus--Continued

perexpansum Foerste

Foerste, A. F., 1934: p. 175, 176, pl. 34, figs. 5a, b.
Holotype 81923
Clinton, Dayton Ls. Mbr. Ohio

Dolorthoceras

? aff. *D. crebriliratum* (Girty)

Gordon, Mackenzie, Jr., 1957: p. 24, pl. 2, figs. 8-10.
Figured specimen 118944
Alapah Ls., black chert and shale mbr. Alaska

medium Gordon

Gordon, Mackenzie, Jr., 1957: p. 23, 24, pl. 2, figs. 14, 21.
Holotype and paratype 118937, 118938
Alapah Ls., black chert and shale mbr. Alaska

solitarium Flower

Flower, R. H., 1939b: p. 105, pl. 1, fig. 9; pl. 4, fig. 6.
Holotype 96778
Tully Ls., West Brook Mbr. New York

? sp.

Gordon, Mackenzie, Jr., 1957: p. 25.
Described and measured specimen 118939a
Lisburne (?) Gr. Alaska
Described and measured specimen 118939b
Wachsmuth Ls. Alaska
Described and measured specimen 118939c
Alapah Ls. Alaska

Domatoceras

northropi Miller and Unklesbay

Miller, A. K., and Unklesbay, A. G., 1942: p. 735, pl. 111, figs. 7, 8.
Holotype and paratype 111917, 111918
Chupadera Fm. New Mexico

umbilicatum Hyatt

Hyatt, Alpheus, 1891: p. 343-345, figs. 45-47.
Holotype 23870
"Lower Coal Measures" Kansas

sp.

Miller, A. K., and Youngquist, Walter, 1949: p. 46, 47, pl. 15, figs. 1-7.
Figured specimens 120716a-d
Jacque Mountain Ls. Colorado

Domatoceras--Continued

? sp.

Miller, A. K., 1945: p. 284-285, pl. 44, figs. 1, 2.
Figured specimen 111611
Upper Leonard Fm.? Texas

Miller, A. K., and Youngquist, Walter, 1949: p. 47, 48.
Described specimens (not located) 120716 ?
Yeso Fm. New Mexico

Ectenoceras

arbucklense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 117, 118, pl. 57, figs. 7, 8.
Holotype 108387
Arbuckle Ls. Oklahoma

arcuosutum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 118, pl. 57, figs. 3, 4.
Holotype 108388
Chepultepec Dol. Tennessee

chepultepecense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 118, 119, pl. 58, figs. 6, 7.
Holotype 108389
Chepultepec Dol. Alabama

compressum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 119, pl. 57, figs. 1, 2.
Holotype 108390
Gasconade Dol. Missouri

ellipticum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 120, pl. 57, figs. 28, 29.
Holotype 108391
Van Buren Fm. Missouri

exile Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 120, pl. 57, figs. 24, 25.
Holotype 108392
Gasconade Dol. Missouri

higdonense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 121, 122, pl. 57, figs. 18, 19.
Holotype 108395
Gasconade Dol. Missouri

Ectenoceras--Continued

laqueatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 122, pl. 57, figs. 9-11.
Holotype and paratype 108396a, b
Van Buren Fm. Missouri

Unklesbay, A. G., 1954: p. 648, pl. 70, fig. 11.
Hypotypes 123413, 123414
Tanyard Fm., Staendebach Mbr. Texas

longum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 122, 123, pl. 57, figs. 5, 6.
Holotype 108397
Ellenburger Ls., Gasconade Horiz. Texas

millsi Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 123, pl. 57, figs. 22, 23.
Holotype 108398
Chepultepec Dol. Tennessee

obliquum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 123, pl. 58, figs. 16, 17.
Holotype 108399
Oneota Dol. Wisconsin

pergracile Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 124, pl. 57, figs. 12-17; pl. 58, fig. 5.
Holotype and paratypes 108400a-q
Ellenburger Ls., Gasconade Horiz. Texas

perobliquum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 124, pl. 57, figs. 20, 21.
Holotype 108401
Chepultepec Dol. Maryland

spp.

Cloud, P. E., Jr., and Barnes V. E., 1948: p. 450, pl. 39, figs. 20-22.
Figured specimens 140103, 140104
Tanyard Fm., Staendebach Mbr. Texas

Ectenolites

subgracile Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 273, 274, pl. 38, figs. 8, 9.
Holotype and paratype 92689
Gasconade Fm. Missouri

Ectocyrtoceras

? *gibberosum* Foerste

Foerste, A. F., 1934: p. 148, 149, pl. 32, figs. 4a, b.
Holotype 89822
Cedarville Dol. Ohio

marginatum Foerste

Foerste, A. F., 1930b: p. 79, pl. 9, figs. 2a-c.
Holotype 81437
Port Byron Dol. Illinois

? *wilmingtonense* Foerste

Foerste, A. F., 1934: p. 147, 148, pl. 33, figs. 1a, b.
Holotype and paratypes 89821a, 89821b-d
Cedarville Dol. Ohio

Ellesmeroceras

bridgei Flower

Flower, R. H., 1941b: p. 7-9, pl. 1, figs. 1-10; pl. 2, fig. 6; text-figs. 1a, b.
Syntypes 108483
Ozarkian ? Alaska

expansum Flower

Flower, R. H., 1941b: p. 9, 10, pl. 2, figs. 3-5.
Holotype 108484
Ozarkian ? Alaska

higdonense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 67, pl. 29, figs. 12-14.
Holotype and paratype 109496, 109497
Gasconade Dol. Missouri

hotchkissi Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 67, 68, pl. 29, figs. 3-7.
Holotype and paratypes 109498-109500
Oneota Dol. Wisconsin

robsonensis Walcott

Walcott, C. D., 1924: p. 527-529, pl. 126, figs. 5-9a.
Syntypes 69803-69806, 19502, 19503
Cushina Fm. British Columbia, Canada

Ellesmeroceras--Continued

robsonensis--Continued

Ulrich, E. O., et al., 1944: p. 73, 74, pl. 2, figs. 1-10.
Lectotype and paratypes — 69803-69806, 19502, 19503
Cushina Fm. — British Columbia, Canada

sp.

Resser, C. E., and Endo, Riuji, 1937: p. 301, pl. 57, figs. 15, 16.
Figured specimens — 86940, 86941
Wanwan Fm. — Manchuria, China

abnorme (Hall)

Teichert, Curt, 1933: p. 132, 135-141, 143, 209, 210, pl. 10, figs. 11-15, 18; pl. 11, figs. 19-20, 24, 25, 28, 29.
Hypotypes — 82241a-c, e-h, k, m, n
No stratigraphic data given — Wisconsin

cf. *E. abnorme*

Foerste, A. F., 1928c: p. 259, 260, pl. 72, figs. 2, 3a, b.
Figured specimens — 81932, 82280
Cedarville Dol. — Ohio

cedarvillense Foerste

Foerste, A. F., 1928c: p. 260, 261, pl. 74, fig. 3.
Holotype — 81933
Cedarville Dol. — Ohio

cf. *E. cedarvillense* Foerste

Foerste, A. F., 1928c: p. 260, 261, pl. 72, fig. 4.
Figured specimen — 82279
Cedarville Dol. — Ohio

indianense (Miller)

Teichert, Curt, 1933: p. 130, 144, pl. 13, fig. 42; pl. 15, fig. 50.
Hypotypes — 82240
Laurel Ls. — Indiana

osmanense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 275, 276, pl. 47, fig. 3.
Holotype — 81920
Clinton Fm., Dayton Ls. Mbr. — Ohio

telleri Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 276, 277, pl. 47, fig. 2; pl. 58, fig. 12.
Holotype — 82239
Racine Dol. — Wisconsin

267-454 O - 68 - 5

Elrodoceras--Continued

sp.

Foerste, A. F., 1928c: p. 261, pl. 73, fig. 1.
Figured specimen 81932
Cedarville Dol. Ohio

Endoceras

baffinense Foerste

Foerste, A. F., 1928a: p. 14, 15, pl. 7, fig. 5.
Holotype [hypotype of *Cameroceras proteiforme* (Hall) of Schuchert, 1900] 28191
Trenton, Richmond ? Baffin Land, Canada

baffinense ? Foerste

Miller, A. K., et al., 1954: p. 47-49, pl. 19, figs. 1, 2.
Figured specimen 124574
Upper Ordovician Baffin Island, Canada

? *baylorense* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 92, pl. 42, figs. 1-5.
Holotype and paratypes 109555-109557
El Paso Ls. Texas

centrotubulatum Endo

Endo, Riuji, 1932: p. 62, pl. 37, figs. 1-3.
Holotype 83676
Upper Ordovician Shensi, China

gouldi Miller, Youngquist, and Collinson

Miller, A. K., et al., 1954: p. 49, 50, pl. 22, fig. 1.
Paratype 124579
Upper Ordovician Sh. Mbr. Baffin Island, Canada

? *indigator* ? (Billings)

Ulrich, E. O., et al., 1944: p. 96, 97, pl. 50, fig. 9.
Figured specimen 109558
Cotter Horiz. Oklahoma

? *knighti* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 97, 98, pl. 51, fig. 1.
Holotype 109559
El Paso Ls. Texas

landerense Foerste

Foerste, A. F., 1935: p. 14, 15, pl. 3, fig. 2.
Holotype 90897
Big Horn Fm., Lander Ss. Mbr. Wyoming

Endoceras--Continued

? *lorrainense* Ruedemann

Ruedemann, Rudolf, 1926: p. 81-84, pl. 20, figs. 1, 2.
Paratypes 34558
Pulaski Sh. (drift) New York

? *monsensis* Walcott

Walcott, C. D., 1924: p. 529, 530, pl. 126, figs. 4, 4a, b.
Syntypes 69802, 109535
Mons Fm. Alberta, Canada

Ulrich, E. O., et al., 1944: p. 88, 89, pl. 45, figs. 20-22.
Lectotype and paratypes 69802, 109535 [of *Walcottoceras monsensis* (Walcott)]
Mons Fm. Alberta, Canada
Paratypes 109536
Mons equivalent ? Utah

? *paradoxicum* Foerste

Foerste, A. F., 1935: p. 15, 16, pl. 1, figs. 1, 2.
Holotype 90898
Big Horn Fm., Lander Ss. Mbr. Wyoming

perannulatum Ruedemann

Ruedemann, Rudolf, 1926: p. 86, 87, pl. 15, fig. 1.
Holotype 34483
Utica Sh. New York

proteiforme ? Hall

Walcott, C. D., 1884: p. 86, pl. 12, figs. 1, 1a (?), c.
Figured specimens 17401
Pogonip Gr. Nevada

? *sansabaense* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 101, pl. 29, fig. 15.
Holotype and paratypes (only 1 paratype located) 109560, 109561
Gasconade ? Horiz. Texas

? *trundlesense* Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 102, pl. 51, figs. 13-15.
Holotype and paratype 109562, 109563
Knox Dol., Cotter Horiz. Tennessee

vellvillense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 103, pl. 49, fig. 5.
Holotype and paratype 109564, 109565
Powell Dol. Arkansas

Endoceras--Continued

? sp. [1]

Ulrich, E. O., et al., 1944: p. 103, 104, pl. 33, fig. 7.
Figured specimen 85185
Tribes Hill Ls. New York

Endocycloceras

legorense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 31, 32, pl. 3, fig. 11.
Holotype 109434
Upper Ozarkian Maryland

perannulatum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 32, pl. 3, fig. 13.
Holotype and figured
plastoholotype 109435
Longview Ls. Tennessee

perannulatum ? Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 32, pl. 3, fig. 12.
Figured specimen 109436
Newala Ls. Alabama

subcurvatum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 32, pl. 3, figs. 1, 2.
Holotype 109437
Cotter Dol. Missouri

Endolobus

gibbosus Hyatt

Hyatt, Alpheus, 1891: p. 353, text-figs. 55, 56.
Syntypes 23871
Carboniferous Texas

ornatus Girty

Girty, G. H., 1911a: p. 95, 96, pl. 13, figs. 2, 2a, b.
Holotype 119609
Moorefield Sh. Arkansas

renfroae Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1949: p. 40, pl. 46, figs. 1, 2.
Holotype and paratype 123385, 123384
Lueders Fm. Texas

sp.

Gordon, Mackenzie, Jr., 1957: p. 27.
Described specimens 145001
Alapah Ls. Alaska

Endosiphuncular structures

Unklesbay, A. G., 1961: p. 378, 379, pl. 51, figs. 3-10; pl. 52, figs. 4-8.
Figured specimens 143007-143011; 143016-143020
Honeycut Fm. Texas

Ephippioceras

divisum (White and St. John)

Hyatt, Alpheus, 1891: p. 350-352, text-figs. 52-54.
Hypotype 23886
"Lower Coal Measures" Kansas

inexpectans Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1947: p. 5, 6, pl. 2, figs. 1-4.
Holotype and paratype 120709, 120710
Pueblo Fm., Camp Creek Sh. Mbr. Texas

sp.

Miller, A. K., and Youngquist, Walter, 1947: p. 130.
Described specimen 120711
Hueco Fm. New Mexico

Ephippiorthoceras

baffinense Foerste

Foerste, A. F., 1928a: p. 24, pl. 7, fig. 8.
Holotype 33288b
Trenton, Richmond ? Baffin Island, Canada

Miller, A. K., et al., 1954: p. 52, 53, pl. 21, figs. 1, 2; pl. 28, figs. 6, 7; pl. 37, figs. 4, 5.
Hypotypes 124599, 124630, 124666
Upper Ordovician Baffin Island, Canada

compressum Foerste

Foerste, A. F., 1928a: p. 23, 24, pl. 7, fig. 9; pl. 23, fig. 6.
Holotype 33288a
Trenton, Richmond ? Baffin Island, Canada

dowlingi Foerste

Miller, A. K., et al., 1954: p. 54, pl. 20, figs. 1-3; pl. 21, figs. 7, 8; pl. 22, figs. 2-4; pl. 44, figs. 13-16, pl. 51, figs. 1, 2; pl. 56, figs. 5, 6.
Hypotypes 124572, 124600, 124601, 124614, 124667, 124696
Upper Ordovician Baffin Island, Canada

Ephippiorthoceras--Continued

dowlingi ? Foerste and Savage

Miller, A. K., et al., 1954: p. 55.
Described specimens 28146, 28197
Upper Ordovician Baffin Island, Canada

? sp.

Miller, A. K., et al., 1954: p. 56, pl. 23, figs. 1, 2.
Figured specimen 124642
Upper Ordovician Sh. Mbr. Baffin Island, Canada

Eremoceras

conoidale Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 127, pl. 60, figs. 3, 4.
Holotype 108402
Gasconade Dol. Missouri

gasconadense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 128, 129, pl. 61, figs. 8-12.
Holotype and paratypes 108403a, 108403b-d, 108404
Gasconade Dol. Missouri

? *marylandicum* Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 129, 130, pl. 60, figs. 1, 2.
Holotype 108405
Chepultepec Dol. Maryland

perdilatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 130, pl. 59, figs. 7-10.
Holotype and paratypes 108406a,b, 108407
Gasconade Dol. Missouri

sansabaense Unklesbay

Unklesbay, A. G., 1954: p. 649, pl. 71, figs. 9, 10.
Holotype 123417
Tanyard Fm., Staendebach Mbr. Texas

subrectum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 130, 131, pl. 61, figs. 2-7.
Holotype and paratypes 108408a,b 108409a-d
Gasconade Dol. Missouri

teres Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 131, 132, pl. 60, fig. 5.
Paratype 108410
Oneota Dol. Minnesota

Eremoceras--Continued

teres--Continued

Unklesbay, A. G., 1954: p. 648, pl. 71, figs. 14-17.
Hypotypes 123415, 123416
Tanyard Fm., Threadgill Mbr. Texas

teres ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 131, 132, pl. 60, fig. 9.
Figured specimen 108411
Upper Ozarkian Pennsylvania

vernonense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 132, pl. 61, figs. 13-15.
Holotype and paratype 108412a,b
Oneota Dol. Wisconsin

Euloxoceras

sp.

Gordon, Mackenzie, Jr., 1957: p. 26, pl. 2, figs. 19, 20.
Figured specimen 118989
Alapah Ls., black chert and shale mbr. Alaska

Euryrizoceras

angulo septatum Foerste

Foerste, A. F., 1934: p. 143, 144, pl. 33, figs. 3a, b.
Holotype 81925
Cedarville Dol. Ohio

chadwicki Foerste

Foerste, A. F., 1930b: p. 82, pl. 14, figs. 2a, b, 3a, b, 4a-c.
Paratypes 81438, 81438a,b
Port Byron Dol. Illinois

clinoseptatum Foerste

Foerste, A. F., 1930b: p. 82, 83, pl. 14, figs. 5a, b.
Holotype 81439
Port Byron Dol. Illinois

? *percurvatum* Foerste

Foerste, A. F., 1934: p. 144, 145, pl. 33, figs. 5a, b.
Hypotypes 89820
Cedarville Dol. Ohio

cf. *E. percurvatum* Foerste

Foerste, A. F., 1930b: p. 84, pl. 15, figs. 6a,b.
Figured specimen 81441
Port Byron Dol. Illinois

Euryrizoceras--Continued

plenum Foerste

Foerste, A. F., 1930b: p. 85, pl. 11, figs. 5a,b.
Holotype and paratype 81440
Port Byron Dol. Illinois

Eurystomites

avensis Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 60, 61, pl. 20, fig. 1.
Holotype and paratype 101397, 101430
Cotter Fm. Missouri

bolarensis Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 61, 62, pl. 36, figs. 4-6; pl. 37, figs. 5, 6; text-fig. 15a.
Holotype and paratypes 101398
Powell Horiz. Virginia

kellogi (Whitfield)

Hyatt, Alpheus, 1894: p. 442, pl. 5, figs. 4, 5.
Hypotypes 25649
Cassin Ls. Vermont

Ulrich, E. O., et al., 1942: p. 58, 59.
Hypotype 101396
Cassin Fm. Vermont

plicatus ? Whiteaves

Schuchert, Charles, 1900: p. 173.

Described specimen (holotype of *Charactoceras schucherti* Foerste, 1928) 28123
Trenton Baffin Land, Canada

rotundus Hyatt

Hyatt, Alpheus, 1894: p. 443, pl. 5, figs. 21-25.
Holotype 25655
Quebec Gr. Vermont

virginiana Hyatt

Hyatt, Alpheus, 1894: p. 444.
Holotype 9611
Cotter Horiz. Virginia

Eurystomites or *Tarphyceras*

Butts, Charles, 1926: p. 96, pl. 17, fig. 14.
Figured specimen *Campbelloceras brevicameratum* ? of Ulrich, Foerste, Miller, and Furnish, 1942) 71455
Newala Ls. Alabama

Faberoceras

saffordi Foerste (*in* Flower)

Flower, R. H., 1946: p. 459-461, pl. 8, fig. 5; pl. 12, fig. 2.
Paratype 114672
Catheys Ls. Tennessee

Fayettoceras

? *beloitense* Foerste

Foerste, A. F., 1932-1933: p. 135 (1933), pl. 34, figs. 3a, b (1932).
Holotype 15680
Black River Ls., Platteville Mbr. Wisconsin

canyonense Foerste

Foerste, A. F., 1935: p. 47, 48, pl. 12, figs. 1, 2; pl. 22, figs. 6, 7.
Holotype and paratype 90921, 90922
Fremont Fm. Colorado

Foordiceras

gregarium (Miller)

Miller, A. K., and Youngquist, Walter, 1949: p. 98, 99, pl. 36, fig. 5; pl. 39, figs. 1, 2, 6-9; pl. 40, figs. 1-4; pl. 41, figs. 5-9.
Hypotypes 120812-120820
Leonard Fm. Texas

magnicostatum (Miller)

Miller, A. K., and Youngquist, Walter, 1949: p. 99, pl. 15, figs. 9, 10.
Hypotype 120826
Leonard Fm. Texas

mammiferum ? (Miller)

Miller, A. K., and Youngquist, Walter, 1949: p. 100, pl. 15, fig. 8.
Figured specimen 120824
Bone Spring Ls. Texas

ornatissimum Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1949: p. 102, pl. 46, figs. 3-5.
Holotype and paratype 123386, 120708
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

shumardianum Girty (misspelled *Foordoceras*)

Girty, G. H., 1908: p. 497, 498, pl. 9, figs. 26, 26a, 27, 27a.
Syntypes 118621
Capitan Fm. Texas

Foordiceras--Continued

shumardianum praecursor Girty (misspelled *Foordoceras*)

Girty, G. H., 1908: p. 498, pl. 25, figs. 15, 15a,b.
Holotype 118622
Basal black ls. (Delaware Mountain Fm.) Texas

Fremontoceras

loperi Foerste

Foerste, A. F., 1935: p. 89, 90, pl. 29, figs. 1-4.
Holotype 90953
Fremont Fm. Colorado

Gasconoceras

obesum Foerste

Foerste, A. F., 1936a: p. 63-66, pl. 25, fig. 4.
Paratypes 92801, 92801a, b
Gascons Fm. Quebec, Canada

planiventrum Foerste

Foerste, A. F., 1936a: p. 62, 63, pl. 25, fig. 3.
Holotype 92800
Gascons Fm. Quebec, Canada

Gaspocyrtoceras

cooperi Foerste

Foerste, A. F., 1936a: p. 56, 57, pl. 24, fig. 10; pl. 25, figs. 1, 2.
Holotype 92798
West Point Ls. Quebec, Canada

telleri Foerste

Foerste, A. F., 1936a: p. 57, 58, pl. 24, figs. 7-9.
Holotype and paratype 92799, 92799a
Racine Mbr. Wisconsin

Geisonoceras

rochesterense Foerste

Foerste, A. F., 1928c: p. 254, pl. 53, fig. 1.
Syntype 10401
Rochester Sh. New York
Syntype 18277
Lockport ? New York

Geisonocerina

landerensis Foerste

Foerste, A. F., 1935: p. 22, 23, pl. 2, figs. 6, 7; pl. 11, fig. 4.
Holotype and paratypes 90902a-c
Big Horn Fm., Lander Ss. Mbr. Wyoming

Gomphoceras

brevipositicum Whitfield

Whitfield, R. P., 1882: p. 339, pl. 26, fig. 15.
Holotype 137048
Hamilton Gr. Wisconsin

calvini Cleland

Cleland, H. F., 1911: p. 465, 466, text-fig. 6.
Syntype 85952
Devonian, Zone B, The "Hard Layer" Wisconsin

? *fusiforme* Whitfield

Whitfield, R. P., 1873: p. 338, pl. 26, fig. 16.
Holotype 137047
Hamilton Gr. Wisconsin

oviforme Hall

Nettelroth, Henry, 1889: p. 193, pl. 21, figs. 17, 18.
Hypotypes 51277
Devonian Fm., Hydraulic Ls. Indiana

suboviforme Walcott

Walcott, C. D., 1884: p. 202, pl. 17, figs. 8, 8a.
Holotype 13984
Devonian Ls. Nevada

turbiniforme Meek and Worthen

Nettelroth, Henry, 1889: p. 194, pl. 21, ? figs. 15, 16.
Hypotypes 51278
Devonian Fm., cherty layers on top
of Hydraulic Ls. Indiana

wabashensis Newell

Kindle, E. M., and Breger, C. L., 1904: p. 476, 477, pl. 20, fig. 4.
Hypotypes 52947
Niagara Gr. Indiana

whitfieldi Cleland

Cleland, H. F., 1907: p. 464, 465; 1911, p. 137, pl. 40, fig. 1.
Syntype 78332
Hamilton Wisconsin

Gonioceras

? "near" *anceps* Hall

Butts, Charles, 1941: p. 91, pl. 89, figs. 22, 23.
Figured specimens 97470a,b
Ottosee Fm. Virginia

Gonioceras--Continued

chaziense Ruedemann

Bassler, R. S., 1919: p. 328, pl. 41, fig. 19.
Hypotype — 66161
Chambersburg Ls. — Pennsylvania

occidentale Hall

Clarke, J. M., 1892-1896: p. 795, pl. 57, fig. 6.
Hypotype — 46527
Trenton Ls. — Illinois

sp.

Endo, Riuji, 1932: p. 109, pl. 22, fig. 4.
Figured specimen — 83760
Ssuyen Fm. — Manchuria, China

Grimsbyoceras

hillsboroense Foerste

Foerste, A. F., 1934: p. 135, 136, pl. 31, figs. 2a, b, 3; pl. 36, figs. 4a, b.
Holotype and paratype — 81931a,b
Peebles Dol. — Ohio

Gyroceras

duplicostatum Whitfield

Whitfield, R. P., 1878: p. 78, pl. 7, fig. 1.
Syntype — 136997
Trenton Ls. — Wisconsin

Whitfield, R. P., 1882: p. 235, pl. 7, fig. 1.
Plastosyntype (illustrated) and syntype (mold) — 136997
Trenton Ls. — Wisconsin

logani Meek

Meek, F. B., 1868: p. 110, pl. 15, figs. 2a-c.
Holotype — 5896
Chautauquan — British Columbia, Canada

sp.

Cleland, H. F., 1911: p. 141, pl. 32.
Figured specimen — 78335
Hamilton — Wisconsin

Haydenoceras

acutum Flower

Flower, R. H., 1949: p. 76, 77, pl. 18, figs. 1-3.
Holotype — 13986 (reassigned 114353)
Nevada Ls. — Nevada

Hexameroceras

erectum Foerste

Foerste, A. F., 1936a: p. 86, 87, pl. 24, figs. 1, 2.
Holotype 92307
Gascons Fm. Quebec, Canada

hertzeri (Hall and Whitfield)

Foerste, A. F., 1930a: p. 375, 376, pl. 49, figs. 1a,b.
Hypotype 82161
Cedarville Dol. Ohio

Hipparionoceras

iowaense Flower

Flower, R. H., 1945: p. 720, 721, pl. 4, figs. 1, 2.
Holotype 114355
Coralville Ls. Iowa

Huronia

gaspensis Foerste

Foerste, A. F., 1936a: p. 76, pl. 9, fig. 2.
Holotype 92804
La Vieille Fm. Quebec, Canada

gaspensis ? Foerste

Foerste, A. F., 1936a: p. 76.
Described specimen 92805
La Vieille Fm. Quebec, Canada

occidentale Foerste

Foerste, A. F., 1928a: p. 97, 98, pl. 10, figs. 1a, b, 2.
Syntype 108490
Richmond Wyoming
Syntype 4672
Unspecified Horiz. Manitoba, Canada

Jasperoceras

costatum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 76, 77, pl. 10, figs. 1-3; text-fig. 17c.
Holotype 101409
Jasper Ls. Arkansas

Kayoceras

biconoideum (Thomas)

Foerste, A. F., 1934: p. 183-186, pl. 31, figs. 1a-c.
Hypotypes 67054
Hopkinton Dol. Iowa

Kentlandoceras

schrocki Foerste

Foerste, A. F., 1932-1933: p. 73, 74 (1933), pl. 7, figs. 2a, b (1932).
Holotype 87116
Black River Dol. Indiana

Kionoceras

austini Foerste

Foerste, A. F., 1928c: p. 301, pl. 64, fig. 4.
Holotype 108491
Cedarville Dol. Ohio

barbense Foerste

Foerste, A. F., 1936a: p. 35, pl. 24, fig. 11.
Holotype 92789
Gascons Fm. Quebec, Canada

fililineatum Foerste

Foerste, A. F., 1928c: p. 305, 306, pl. 68, fig. 2.
Syntypes 25852
Racine Mbr. Illinois

paucicostatum Miller

Foerste, A. F., 1935: p. 24, pl. 5, fig. 5.
Hypotype 90903
Big Horn Fm., Lander Ss. Mbr. Wyoming

scalariforme (Schuchert)

Miller, A. K., et al., 1954: p. 57, 58, pl. 23, figs. 3-5; pl. 24, figs. 5, 6.
Hypotypes 124552, 124627
Upper Ordovician Sh. Baffin Island, Canada

strix (Hall and Whitfield)

Foerste, A. F., 1928c: p. 293-295, pl. 66, fig. 1.
Hypotype 7304
Niagaran Indiana

? sp. A

Gordon, Mackenzie, Jr., 1957: p. 22, 23, pl. 2, figs. 1-4.
Figured specimens 118934, 118935
Lisburne Gr. Alaska

? sp. B

Gordon, Mackenzie, Jr., 1957: p. 23, pl. 2, fig. 12.
Figured specimen 118936
Lisburne Gr. ? Alaska

Kionoceras--Continued

? sp. C

Gordon, Mackenzie, Jr., 1957: p. 23, pl. 2, figs. 15, 16.
Figured specimen 118942
Alapah Ls., black chert and shale mbr. Alaska

? sp. D

Gordon, Mackenzie, Jr., 1957: p. 23, pl. 2, figs. 17, 18.
Figured specimen 118943
Alapah Ls., black chert and shale mbr. Alaska

sp. (K. *myrice* group ?)

Foerste, A. F., 1928c: p. 298-300, pl. 63, fig. 5.
Figured specimen 81946
Cedarville Dol. Ohio

sp.

Foerste, A. F., 1928c: p. 304.
Described specimen 52951
Niagaran Dol. Indiana

Foerste, A. F., 1928c: p. 300, pl. 62, fig. 5.
Figured specimen 142792
Port Byron Mbr. Illinois

Kirkoceras

arcuatum Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 277, 278, pl. 38, fig. 4.
Holotype 92690
Manitou Fm. Colorado

Ulrich, E. O., et al., 1943: p. 45, pl. 25, figs. 12, 13.
Hypotype 108246
Manitou Ls. Colorado

? *bradleyi* Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 46, pl. 25, figs. 1-9.
Holotype and paratypes 108247a-v
Hastings Creek Fm. Quebec, Canada

compressum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 46, pl. 25, figs. 10, 11.
Holotype and paratypes 108248a-f
Manitou Ls. Colorado

Kirkoceras--Continued

gracile Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 47, pl. 24, figs. 1-4.
Holotype 108249
Manitou Ls. Colorado

? *missisquoi* (Billings)

Ulrich, E. O., et al., 1943: p. 47, 48, pl. 26, figs. 11-16.
Hypotypes 108250a-y
Hastings Creek Fm. Quebec, Canada

obliquum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 48, 49, pl. 70, figs. 15, 16.
Holotype 108251
Manitou Ls. Colorado

Knightoceras

kempae Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1949: p. 38, 39, pl. 55, fig. 1.
Paratype (a hypotype of (*Nautilus* (*Temnocheilus*) *winslowi* (Meek and Worthen) in White, 1891 21719
Clyde Fm. Texas

oxylobatum Miller and Downs

Miller, A. K., and Downs, R. H., 1948: p. 676, 677, pl. 101, figs. 1-4.
Holotype 119617
Winslow Fm. Arkansas

pattoni Gordon

Gordon, Mackenzie, Jr., 1957: p. 27, 28, pl. 3, figs. 5-8; text-fig. 8.
Holotype and paratypes 118947, 120676
Alapah Ls., black chert and shale mbr. Alaska

sp.

Gordon, Mackenzie, Jr., 1957: p. 28, pl. 3, fig. 9.
Figured specimen 118948
Alapah Ls. ? Alaska

Kochoceras

cuneiforme Troedsson

Miller, A. K., et al., 1954: p. 72, pl. 15, fig. 2; pl. 32, fig. 5; pl. 34, figs. 1, 2; pl. 35, figs. 1-3.
Hypotypes 124675, 124687, 124692, 124694
Upper Ordovician Baffin Island, Canada

Kochoceras --Continued

grande Foerste

Foerste, A. F., 1935: p. 58, 59, pl. 8, fig. 1.
Holotype 90928
Big Horn Fm., Lander Ss. Mbr. Wyoming

Lambeoceras

acutilaterale Foerste

Foerste, A. F., 1935: p. 55, 56, pl. 6, fig. 3.
Holotype 90927
Big Horn Fm., Lander Ss. Mbr. Wyoming

baffinense Miller, Youngquist, and Collinson

Miller, A. K., et al., 1954: p. 79-82, pl. 37, fig. 7; pl. 38, figs. 1-3; pl. 39, fig. 1; pl. 40, fig. 1; pl. 46, fig. 14 (not located); text-fig. 9.
Holotype and paratypes 124695, 124684, 124691, 124693
Upper Ordovician Ls. Baffin Island, Canada

confertum Foerste

Foerste, A. F., 1935: p. 51, 52, pl. 7, figs. 1, 2.
Hypotype 90924
Stewartville Fm. Illinois

cf. *confertum* Foerste

Foerste, A. F., 1935: p. 52, 53, pl. 6, fig. 2.
Figured specimen 90925
Big Horn Fm., Lander Ss. Mbr. Wyoming

landerense Foerste

Foerste, A. F., 1935: p. 53, pl. 6, fig. 1.
Holotype 90926
Big Horn Fm., Lander Ss. Mbr. Wyoming

Landeroceras

prolatum (Miller)

Foerste, A. F., 1935: p. 69-71, pl. 5, figs. 6, 7.
Hypotypes 90938a, b
Big Horn Fm., Lander Ss. Mbr. Wyoming

Lechritrochoceras

lentidilatatum Foerste

Foerste, A. F., 1930b: p. 58, 59, pl. 25, figs. 1, 3.
Syntypes 82170, 108489
Cedarville Dol. Ohio

267-454 O - 68 - 6

Lechritrochoceras--Continued

notum (Hall)

Foerste, A. F., 1930b: p. 52-54, pl. 8, figs. 4a,b.
Hypotype 142781
Racine Dol. Illinois

telleri Foerste

Foerste, A. F., 1930b: p. 49, 50, pl. 7, figs. 2a,b.
Holotype 142782
Racine Dol. Illinois

Leptocyrtoceras

curvatum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 48, pl. 11, figs. 8-12.
Holotype and paratypes 109454, 109455, 109456
Smithville Fm. Arkansas

curvatum ? Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 49, pl. 11, figs. 6, 7.
Figured specimen 109457
Cotter Dol. Arkansas

powellense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 49, pl. 11, figs. 1-3.
Holotype and paratypes 109458-109460
Powell Dol. Arkansas

virginianum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 49, pl. 11, figs. 4, 5.
Holotype 109461
Roubidoux Horiz. Virginia

Leurocycloceras

cf. *L. niagarense* (Hall)

Flower, R. H., 1941: p. 469, 473, 474, 487, pl. 1, figs. 1-19; pl. 2, figs. 1-3; pl. 3, figs. 5-9.
Figured specimens 108197
Racine Dol. Wisconsin

raymondi Foerste

Foerste, A. F., 1928c: p. 272, 273, pl. 57, figs. 4a-c.
Syntype 142783
Racine Dol. Wisconsin

Leurorthoceras

altopontense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 257, 258, pl. 42, fig. 2.
Holotype 82212
Camp Nelson Fm., Lebanon Mbr. Kentucky

? *baffinense* Foerste

Miller, A. K., et al., 1954: p. 67-69, pl. 30, fig. 1.
Hypotype 124685
Upper Ordovician Baffin Island, Canada

lebanonense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 258, pl. 42, figs. 1a,b; pl. 59, fig. 1.
Holotype 82223
Lebanon Ls. Tennessee

Leurotrochoceras

compressum Foerste

Foerste, A. F., 1930b: p. 63, pl. 6, figs. 3a-c.
Syntypes 81428, 81428b
Port Byron Dol. Illinois

compressum ? Foerste

Foerste, A. F., 1930b: p. 63, pl. 7, figs. 4a, b.
Figured specimen 81428a
Port Byron Dol. Illinois

paucoplanatum Foerste

Foerste, A. F., 1930b: p. 64, pl. 7, figs. 3a, b; 8a, b.
Holotype and paratype 81485, 81485a
Port Byron Dol. Illinois

Levisoceras

arctedorsatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 134, pl. 64, figs. 7, 8.
Holotype 108413
Chepultepec Dol. Maryland

complanatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 135, 136, pl. 63, figs. 14-16.
Holotype 108414
Gasconade Dol. Missouri

Levisoceras--Continued

Unklesbay, A. G., 1954: p. 649, pl. 70, figs. 17, 18.

Hypotype	123418
Tanyard Fm., Threadgill Mbr.	Texas

cf. *L. complanatum* Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 135, 136, pl. 62, figs. 12, 13.

Figured and described specimens	108415a-d
Chepultepec Dol.	Alabama
Described specimen	108416
Gasconade Dol.	Missouri

constrictum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 136, pl. 65, figs. 6, 7.

Holotype	108419
Oneota Dol.	Wisconsin

curvatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 136, 137, pl. 65, figs. 10-12.

Holotype and paratype	108420, 108422
Oneota Dol.	Wisconsin
Paratype	108421
Oneota Dol.	Minnesota

ellipticum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 138, pl. 63, figs. 7-13.

Holotype	108423
Gasconade - Oneota equivalent	Pennsylvania
Paratypes	108425, 108427
Oneota Dol.	Wisconsin
Paratype	108426
Ellenburger Ls., Gasconade Horiz.	Texas

Unklesbay, A. G., 1954: p. 650, pl. 70, figs. 6, 7.

Hypotypes	123419, 123420
Tanyard Fm., Staendebach Mbr.	Texas

ellipticum ?

Ulrich, E. O., et al., 1943: p. 138, pl. 63, figs. 5, 6.

Figured specimen	108424
Oneota Fm.	Wisconsin

instabile Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 138, 139, pl. 64, figs. 1-6.

Holotype	108428
Gasconade Dol.	Missouri
Paratype	108429
Chepultepec Dol.	Alabama
Paratypes	108430, 108432
Oneota Dol.	Wisconsin
Paratype	108431
Chepultepec Dol.	Tennessee

Levisoceras--Continued

magnum Unklesbay

Unklesbay, A. G., 1954: p. 651, pl. 70, figs. 14, 15.
Paratype 123423
Tanyard Fm., Staendebach Mbr. Texas

obliquatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 139, 140, pl. 64, figs. 14-18.
Holotype and paratype 108433, 108437
Gasconade Fm. Missouri
Paratype 108434
Arbuckle Ls., Gasconade Horiz. Oklahoma
Paratype 108435
Oneota Dol. Minnesota
Paratype 108436
Oneota Dol. Wisconsin

Unklesbay, A. G., 1954: p. 650, pl. 70, fig. 9.
Hypotype 123421
Tanyard Fm., Staendebach Mbr. Texas

percurvatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 140, pl. 65, figs. 13, 14.
Holotype 108438
Gasconade Fm. Missouri

Unklesbay, A. G., 1954: p. 650, 651, pl. 70, fig. 16.
Hypotype 123422
Tanyard Fm., Threadgill Mbr. Texas

raaschi Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 140, 141, pl. 63, figs. 1, 2; pl. 63, figs. 3, 4.
Holotype 108439
Oneota Dol. Wisconsin

cf. *L. raaschi* Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 140, 141, pl. 63, figs. 3, 4.
Figured specimen 108440
Chepultepec Dol. Tennessee

subgracile Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 141, pl. 64, figs. 9-13.
Holotype 108441
Oneota Dol. Minnesota
Paratypes 108442a-c
Ellenburger Ls., Gasconade Horiz. Texas

Levisoceras--Continued

transitum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 141, 142, pl. 65, figs. 4, 5.
Holotype 108443
Chepultepec Dol. Tennessee

sp.

Butts, Charles, 1926: p. 88, pl. 14, figs. 1-3.
Figured specimen (figs. 1, 2: holotype of *Shelbyoceras buttsi* Ulrich, Foerste, and Miller, 1943) 71423
Copper Ridge Dol. Alabama
Figured specimen (fig. 3: holotype of *Shelbyoceras unguliforme* Ulrich, Foerste, and Miller, 1943) 108473
Copper Ridge Dol. Alabama

Butts, Charles, 1941: p. 19, pl. 68, fig. 5.
Figured specimen 97288
Chepultepec Ls. Virginia

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 450, pl. 39, fig. 23.
Figured specimen 140102
Tanyard Fm., Threadgill Mbr. Texas

? sp.

Ulrich, E. O., et al., 1943: p. 142, 143, pl. 62, figs. 14, 15; text-figs. 13, 14.
Figured and described specimens 108444a-v
Ellenburger Ls. Texas

Liroceras

globulare (Hyatt)

Miller, A. K., and Youngquist, Walter, 1949: p. 121-123, pl. 55, figs. 6-11; pl. 56, figs. 1-5.
Hypotypes 120714a, b
Admiral Fm., Wildcat Creek Sh. Mbr. Texas
Hypotypes (formerly *Nautilus* ? of White, 1891) 21717
Clyde Fm., Grape Creek Ls. Texas
Hypotypes (formerly *Nautilus* ? of White, 1891) 21700a, b
Admiral Fm., Elm Creek Ls. Texas

Lituites

(Ophidoceras) bickmoreanus (Whitfield)

Kindle, E. M., and Breger, C. L., 1904: p. 473, 474, pl. 25, fig. 1.
Hypotype 52946
Niagara Gr. Indiana

Lituites--Continued

farnsworthi Billings

Billings, Elkanah, 1861: p. 21, 22.
Syntype (?) (syntype of *Centrotarphyceras alpheusi* Ulrich, Foerste, Miller, and Furnish, 1942) 101381
Naylor Ledge Ls. Quebec, Canada

hercules carrollensis Kindle and Breger

Kindle, E. M., and Breger, C. L., 1904: p. 474, pl. 16, fig. 1; pl. 17, fig. 1.
Holotype 62347
Niagara Gr. Indiana

marshi Hall

Nettelroth, Henry, 1889: p. 195, 196, pl. 30, fig. 1.
Hypotypes 51378
Niagara Kentucky

multicostatus Whitfield

Whitfield, R. P., 1882: p. 303, pl. 20, fig. 7.
Holotype 135954
Niagara Ls., Lower beds Wisconsin

sp.

Walcott, C. D., 1888: p. 239, 240, text-figs. 8, 9.
Figured specimens (fig. 9 not located) 25619
Trenton Zn. New York

? sp.

Foerste, A. F., 1890: pl. 9, fig. 16.
Figured specimen 88676
Clinton Gr. Ohio

Loxoceras

husseyi Foerste

Foerste, A. F., 1923: p. 86, 87, pl. 15, figs. 3a-d.
Syntypes 72034
"Argillaceous strata immediately beneath Brassfield Ls. (Basal Silurian)" Ohio

Mandaloceras

austini Foerste

Foerste, A. F., 1934: p. 187, 188, pl. 30, fig. 3.
Holotype 81852
Cedarville Dol. Ohio

Mandaloceras--Continued

hawthornense Foerste

Foerste, A. F., 1930b: p. 109, pl. 21, figs. 4a, b.
Paratype 81450
Racine Dol. Illinois

subgracile (Billings)

Foerste, A. F., 1936a: p. 80-83, pl. 24, figs. 3-5; pl. 26, fig. 2.
Hypotypes 92806, 92806a-c
Gascons Fm. Quebec, Canada

Manitouoceras

gracile Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 118, pl. 28, figs. 3-7.
Holotype and paratype 109583, 109584
Manitou Fm. Colorado

major Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 118, 119, pl. 28, figs. 1, 2.
Holotype 109585
Manitou Fm. Colorado

? sp.

Ulrich, E. O., et al., 1944: p. 119, pl. 28, figs. 10-13.
Figured specimens 109586
Upper Canadian Texas

Mcqueenoceras

franklinense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 119, pl. 50, fig. 10.
Holotype 109587
El Paso Ls. Texas

jeffersonense Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 279, pl. 38, fig. 2.
Holotype and paratype 92691a, b
Jefferson City Fm. Missouri

Ulrich, E. O., et al., 1943: p. 143, 144, pl. 68, figs. 5-11.
Hypotypes 108445a, b; 108446a; 108447a; 108448; 108453
Jefferson City Dol. Missouri

Ulrich, E. O., et al., 1944: p. 119, pl. 51, figs. 4-12.
Hypotypes 109591
Jefferson City Dol. Missouri

Mcqueenoceras--Continued

Unklesbay, A. G., 1961: p. 374, 375, pl. 51, figs. 1, 2.
Hypotypes 143001, 143002
Jefferson City Horiz. Texas

jeffersonense ? Ulrich and Foerste

Ulrich, E. O., et al., 1943: p. 143, pl. 68, fig. 12.
Figured specimen 108453
Arbuckle Ls. Oklahoma

newmanni Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 120, pl. 43, figs. 18-20.
Holotype and paratypes (holotype not located) 109588-109590
Cotter Horiz Tennessee

spp.

Cloud, P. E., and Barnes, V. E., 1948: p. 456, pl. 42, figs. 26, 27, 30, 34.
Figured specimens 116716-116718, 116720
Honeycut Fm. Texas

Mcqueenoceras ? or *Clitendoceras* ?

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 455, pl. 41, fig. 44.
Figured specimen 140099
Gorman Fm. Texas

Metacoceras

? *aberrans* Miller and Unklesbay

Miller, A. K., and Unklesbay, A. G., 1942: p. 725, 726, pl. 113, fig. 4; pl. 114, fig. 4; text-fig. 1c.
Holotype 111916
Chupadera Fm. New Mexico

? *aberrans* ? Miller and Unklesbay

Miller, A. K., and Unklesbay, A. G., 1942: p. 725, 726.
Described specimen (cf. *M.* ? *biseriatum* Miller and Unklesbay, 1942) 145002
Chupadera Fm. New Mexico

cf. *M.* ? *biseriatum* Miller and Unklesbay

Miller, A. K., and Unklesbay, A. G., 1942: p. 724, 725.
Described specimen (also described as *M.* ? *aberrans* ? Miller and Unklesbay, 1942) 145002
Chupadera Fm. New Mexico

Metacoceras--Continued

bituberculatum Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1949: p. 106, 107, pl. 49, figs. 3, 4.
Holotype 120821
Leonard Fm. Texas

cheneyi Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1947: p. 6, pl. 1, figs. 16-18.
Holotype and paratype 120720, 120721
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

cheneyi ? Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1949: p. 107, 108.
Described specimens 120722
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

cooperi Miller

Miller, A. K., 1945: p. 285, 286, pl. 45, figs. 11, 12.
Holotype and paratypes 111612, 111613
Leonard Fm. Texas

cornutum Girty

Girty, G. H., 1911b: p. 145, 146.
Holotype 120702
Wewoka Fm. Oklahoma

Girty, G. H., 1915: p. 240-242, pl. 29, figs. 4, 4a, b; 5a, b.
Holotype and hypotype 120702, 120701
Wewoka Fm. Oklahoma

cornutum carinatum Girty

Girty, G. H., 1911b: p. 146, 147.
Syntypes 120703, 120704
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 243, pl. 30, figs. 3, 3a, b; 4, 4a-c.
Syntypes 120703, 120704
Wewoka Fm. Oklahoma

cornutum multituberculatum Girty

Girty, G. H., 1911b: p. 147.
Holotype 120705
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 243, pl. 30, figs. 2, 2a.
Holotype 120705
Wewoka Fm. Oklahoma

Metacoceras --Continued

cornutum sinuosum Girty

Girty, G. H., 1911b: p. 146.
Holotype 120706
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 242, pl. 30, figs. 1, 1a, b.
Holotype 120706
Wewoka Fm. Oklahoma

gregarium Miller

Miller, A. K., 1945: p. 286, 287, pl. 45, figs. 5-8.
Syntypes 111614, 111615
Leonard Fm. Texas

gregarium ? Miller

Miller, A. K., 1945: p. 286, 287.
Described specimens 111616
Word Fm. Texas

hayi Hyatt

Hyatt, Alpheus, 1891: p. 339, 340, figs. 38, 39.
Holotype 142784
Carboniferous Kansas

inconspicuum Hyatt

Hyatt, Alpheus, 1891: p. 340, 341, fig. 40, 41.
Holotype 142785
Carboniferous Kansas

magnicostatum Miller

Miller, A. K., 1945: p. 287, 288, pl. 45, figs. 9, 10.
Holotype 111617
Leonard Fm. Texas

magnicostatum ? Miller

Miller, A. K., 1945: p. 287, 288.
Described specimen 111618
Leonard Fm. Texas

marylandica Lintz

Lintz, Joseph, Jr., 1958: p. 104, pl. 16, figs. 22, 24.
Holotype and paratype 119254, 119255
Conemaugh Fm., Ames Sh. Maryland

mutatum Miller

Miller, A. K., 1945: p. 290, 291, pl. 45, fig. 1.
Holotype 111619
Leonard Fm. Texas

Metacoceras --Continued

perelegans Girty

Girty, G. H., 1911b: p. 147, 148.
Syntypes 120696, 120697
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 244, pl. 30, figs. 5a-c, 6.
Lectotype and paratypes 120696, 120697
Wewoka Fm. Oklahoma

sculptile Girty

Girty, G. H., 1911b: p. 148, 149.
Syntypes 120677, 120678
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 245, 246, pl. 31, figs. 1a-d; 2, 2a.
Syntypes 120677, 120678
Wewoka Fm. Oklahoma

walcotti Hyatt

Hyatt, Alpheus, 1891: p. 337-339, figs. 36, 37.
Syntype 23873
Carboniferous Texas

Metaplectoceras

? *landerense* Foerste

Foerste, A. F., 1935: p. 92, pl. 21, fig. 3.
Holotype 90954
Big Horn Fm., Lander Ss. Mbr. Wyoming

Metarizoceras

erectum Foerste

Foerste, A. F., 1930b: p. 26, 27, pl. 2, figs. 1a-c.
Paratype 81422
Port Byron Dol. Illinois

savagei Foerste

Foerste, A. F., 1930b: p. 24, pl. 1, figs. 2a, b.
Holotype 81421
Port Byron Dol. Illinois

Michelinoceras

dutroi Gordon

Gordon, Mackenzie, Jr., 1957: p. 20, pl. 1, figs. 3-6.
Holotype and paratype 118990, 118991
Alapah Ls., black chert and
sh. mbr. Alaska

Mitorthoceras

perfilosum Gordon

Gordon, Mackenzie, Jr., 1960: p. 136, pl. 27, figs. 1-4, 8.
Holotype and paratype 119050, 119051
Chainman Sh. Utah
Paratype 119052
Ruddell Sh. Arkansas

Monogonoceras

alabamense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 50, pl. 13, figs. 4-8.
Holotype and paratypes 109462, 109463
Longview Ls. Alabama

magnisiphonatum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 50, 51, pl. 14, figs. 7-12.
Holotype and paratypes 109464-109467
Longview Ls. Virginia

subrectum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 51, pl. 14, figs. 1-6.
Holotype and illustrated plastoholotype 109468
Roubidoux Fm. Missouri

Mooreoceras

crebriliratum (Girty)

Miller, A. K., and Youngquist, Walter, 1948: p. 653, pl. 94, figs. 4, 5.
Hypotype 113013
Barnett Fm. Texas

giganteum Clifton

Miller, A. K., and Youngquist, Walter, 1949: p. 23, 24, pl. 5, fig. 1.
Hypotypes 120717, 120719
Hueco Ls. New Mexico

giganteum ? Clifton

Miller, A. K., and Youngquist, Walter, 1949: p. 23, 24, pl. 3, fig. 9.
Figured specimen 120718
Hueco Ls. New Mexico

? sp.

Easton, W. H., 1962: p. 101, 102, pl. 13, fig. 22.
Figured specimen 118880
Heath Fm. Montana

Mooreoceras--Continued

spp.

Miller, A. K., 1945: p. 283, pl. 44, figs. 8, 9.
Figured and described specimens — 111609, 111609a-f, 111610
Word Fm. — Texas

? spp.

Gutschick, R. C., and Treckman, J. F., 1957: p. 1151, pl. 143, figs. 4, 5.
Figured specimen — 136470
Rockford Ls. — Indiana

Moreauoceras

milleri Cullison

Cloud, P. E., and Barnes, V. E., 1948: p. 457, pl. 42, fig. 29.
Hypotype — 116721a
Honeycut Fm. — Texas

Muiroceras

tuberculosum Flower

Flower, R. H., 1949: p. 77, 78, pl. 18, figs. 4-6; pl. 20, figs. 1, 4.
Holotype — 114360
Devonian Ls., upper part — Alaska

Mysticoceras

vicinum Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 281, 282, pl. 38, fig. 7.
Holotype and paratype — 92692
Hastings Creek Fm. — Quebec, Canada

Nanno

aulema Clarke

Clarke, J. M., 1894: p. 205-208, pl. 6, figs. 1, 5-8.
Syntypes — 48198
Trenton Shales — Minnesota

Hyatt, Alpheus, 1895: p. 1, pl. 1, fig. 1.
Syntype (?) (discussed by Clarke, not figured) — 48198
Galena Shales — Minnesota

walcotti Foerste

Foerste, A. F., 1935: p. 17, 18, pl. 8, figs. 2, 3.
Holotype — 90899
Fremont Fm. — Colorado

Nanno--Continued

? sp.

Ulrich, E. O., et al., 1944: p. 127, pl. 46, fig. 16.
Figured specimen 59523
Chazyan Ls. Vermont

Nautilus

eccentricus Meek and Hayden

Meek, F. B., and Hayden, F. V., 1864: p. 83-84; 1865, p. 65, pl. 2, figs. 14a, b.
Holotype and paratype 4185
Permian Kansas

globulare Hyatt

White, C. A., 1891: p. 23, pl. 3, figs. 6-8.
Hypotypes 21717
Permian Texas

maximus (Conrad)

Nettelroth, Henry, 1889: p. 196, 197, pl. 24, fig. 1.
Hypotype 51243
Devonian Fm., Hydraulic Ls. Kentucky

missouriensis ? Swallow

White, C. A., 1884: p. 166, pl. 35, figs. 1, 2.
Figured specimen 65822
"Coal Measures" Indiana

occidentalis Swallow

Meek, F. B., 1872: p. 234, pl. 2, fig. 17.
Hypotype 6525
Upper Carboniferous Nebraska

White, C. A., 1891: p. 23, pl. 2, figs. 11, 12.
Hypotype (syntype of *Tainoceras clydense* Miller and Kemp, 1947) 21712
Permian Texas

(Temnocheilus) winslowi (Meek and Worthen)

White, C. A., 1891: p. 23, pl. 3, figs. 1-5.
Hypotypes (fig. 5, paratype of *Knightoceras kempae* Miller and Youngquist, 1949; figs. 1-4 *Temnocheilus* spp., ibid, 1949) 21719 (reassigned 120825)
Permian Texas

Nautilus --Continued

(Endolobus) _____? (sp. ?)

White, C. A., 1891: p. 24, pl. 2, fig. 13.
Figured specimen (*Tainoceras* or *Metacoceras* or *Foordiceras clydense* ? of Miller and Youngquist, 1949) 21707
Permian Texas

____? (sp. ?)

White, C. A., 1891: p. 24, pl. 2, figs. 7-10; pl. 3, figs. 6-8.
Figured specimens [hypotypes of *Liroceras globulare* (Hyatt) in Miller and Youngquist, 1949] 21700a, b; 21717
Permian Texas

____? (sp. ?)

White, C. A., 1891: p. 24, pl. 2, figs. 4-6.
Figured specimens (paratypes of *Stenopoceras whitei* Miller and Youngquist, 1949)
Permian Texas

Neumatoceras

brevipostícum (Miller)

Foerste, A. F., 1935: p. 34, pl. 7, fig. 5.
Hypotype 90910
Big Horn Fm. Wyoming

canyonense Foerste

Foerste, A. F., 1935: p. 34, 35, pl. 3, figs. 3, 4, 5.
Holotype 90911
Fremont Fm. Colorado

cf. *N. canyonense*

Foerste, A. F., 1935: p. 35, 36, pl. 3, fig. 5.
Figured specimen 90912
Big Horn Fm. Wyoming

? *milleri* Foerste

Foerste, A. F., 1935: p. 36, 37, pl. 4, fig. 4.
Holotype 90913
Big Horn Fm. Wyoming

? sp.

Foerste, A. F., 1935: p. 37, pl. 5, fig. 4; p. 38, pl. 5, figs. 1-3.
Figured specimen 90914
Big Horn Fm. Wyoming
Figured specimen 90915
Fremont Fm. Colorado

Nybyoceras

foerstei Endo

Endo, Riuji, 1930: p. 298, 299, pl. 60, figs. 1a-c.
Holotype 83455
Wuting Fm. Manchuria, China

ulrichi Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 278, pl. 46, figs. 1a-c.
Holotype 82227
Simpson Gr. Oklahoma

Oderoceras

depressum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 50, 51, pl. 28, figs. 3, 4.
Holotype and paratype 108252a, b
Knox Dol., Cotter Horiz. Tennessee

sevierense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 51, 52, pl. 28, figs. 5, 6.
Holotype 108253
Knox Dol., Cotter Horiz. Tennessee

virginianum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 52, pl. 53, fig. 15.
Holotype 108254
Cotter Horiz. Virginia

Ogygoceras

gracile Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 70, pl. 15, figs. 1-4.
Holotype and paratype 109501
Smithville Fm. Arkansas

Oncoceras

arcticum Schuchert

Schuchert, Charles, 1900: p. 172, pl. 14, figs. 4-7.
Holotype 28196
Trenton Baffin Island, Canada

covingtonense Flower

Flower, R. H., 1946: p. 248, 249, pl. 36, figs. 6, 7.
Holotype 48391
Cynthiana Ls., Point Pleasant Beds Kentucky

267-454 O - 68 - 7

Oncoceras--Continued

exile Flower

Flower, R. H., 1946: p. 263, 264, pl. 39, figs. 1, 2.
Paratypes 114684
Richmond, Hitz Layer Indiana

fossatum Flower

Flower, R. H., 1946: p. 247, 248, pl. 35, fig. 5.
Holotype 59481
Trenton ?, Cynthiana Gr.,
Leipers Fm. Kentucky

parvum Foerste

Foerste, A. F., 1935: p. 42, 43, pl. 10, fig. 4.
Holotype 90919
Big Horn Fm. Wyoming

pupaeforme Ruedemann

Ruedemann, Rudolf, 1921: p. 68-70, text-fig. 6a.
Holotype and paratype (paratype of
O. pupaeforme femina Ruedemann,
1926) 96209
Utica Sh. New York

pupaeforme femina Ruedemann

Ruedemann, Rudolf, 1926: p. 104-106, pl. 16, figs. 2, 3.
Paratype (paratype of *O. pupaeforme*
Ruedemann, 1921) 96209
Utica Sh. New York

tumidum Schuchert

Schuchert, Charles, 1900: p. 172, pl. 14, figs. 1-3.
Holotype 28120
Trenton Baffin Island, Canada

? sp.

Flower, R. H., 1946: p. 259, pl. 35, fig. 4.
Figured specimen 48396
Corryville Beds Ohio

Oneotoceras

curvatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 146, pl. 66, figs. 1-3.
Holotype 108457
Oneota Dol. equivalent Michigan

Oneotoceras--Continued

divaricatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 146, pl. 69, figs. 6-8.

Holotype	108458
Oneota Dol. equivalent	Michigan

extremum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 147, pl. 66, figs. 4, 5.

Holotype	108459
Oneota Dol.	Wisconsin

husseyi Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 148, pl. 68, figs. 1, 2.

Holotype	108460
Oneota equivalent	Michigan

impressum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 148, 149, pl. 26, fig. 1; text-fig. 15.

Holotype	108461
Oneota Horiz.	Michigan

loculosum (Hall)

Butts, Charles, 1926: p. 90, pl. 15, figs. 8, 9.

Hypotypes	71433a, b
Chepultepec Dol.	Tennessee

Ulrich, E. O., et al., 1943: p. 145, 146, pl. 66, figs. 9-12; pl. 67, figs. 3, 6, 7, 9, 10; pl. 68, figs. 13, 14.

Hypotypes	108455a-k; 108456
Chepultepec Dol.	Tennessee
Hypotypes	108454a, b
Gasconade Dol.	Missouri

madisonense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 149, 150, pl. 12, figs. 2, 3.

Holotype	108462
Oneota Dol.	Wisconsin

magnum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 150, pl. 69, figs. 1, 2.

Holotype and paratypes	108463a-c
Oneota Horiz.	Michigan

percurvatum Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 150, 151, pl. 26, figs. 2-5.

Holotype	108464
Chepultepec Dol.	Alabama
Paratypes	108465, 108466
Gasconade Dol.	Missouri
Paratypes	108467a-d
Chepultepec Dol.	Tennessee

Oneotoceras--Continued

wisconsinense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 151, 152, pl. 69, figs. 3-5.
Holotype and paratypes 108468a-e
Oneota Dol. Wisconsin

sp.

Ulrich, E. O., et al., 1943: p. 152, pl. 12, fig. 4.
Figured specimen 108469
Chepultepec Dol. Maryland

Onychoceras

australe Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 53, pl. 15, figs. 7-9.
Holotype 109469
Odenville Ls. Alabama

breve Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 53, pl. 15, figs. 5, 6.
Holotype 59458
Cassin Ls. Vermont

subrotundum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 53, 54, pl. 17, figs. 1, 2.
Holotype and paratypes 109470-109472
Powell Horiz. Virginia

Ophidioceras

wilmingtonense Foerste

Foerste, A. F., 1925: p. 66, 67.
Paratype 85187
Cedarville Dol. Ohio

Ormoceras

cannonense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 287, 288, pl. 48, figs. 3a-c (b not located); pl. 58, fig. 7.
Paratypes (holotype, figured paratypes listed as USNM 82232 at Vanderbilt University) 82232
Trenton Ls., Cannon Mbr. Tennessee

chinense Endo

Endo, Riuji, 1932: p. 102, pl. 21, fig. 10.
Holotype 83745
Ssuyen Fm. Manchuria, China

Ormoceras--Continued

? covingtonense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 288, 289, pl. 45, figs. 2a, b; pl. 58, fig. 9.
Holotype 48258
Maysville Fm. Kentucky

ferecentricum Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 289, 290, pl. 49, figs. 2a, b.
Holotype 82214
Lowville Fm. Kentucky

hitzi (Foerste)

Foerste, A. F., 1932, 1933: p. 12, 13, pl. 14, fig. 1.
Lectotype 87114
Richmond, Whitewater Mbr., Saluda Div., Hitz Layer Indiana

kimurai Endo

Endo, Riuji, 1932: p. 102, 103, pl. 20, fig. 9; pl. 40, fig. 1.
Holotype 83746
Ssuyen Fm. Manchuria, China

lindseyi Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 290, pl. 53, figs. 2a-c.
Plastoholotype (holotype listed as USNM 82213 at Vanderbilt University) 82213
Trenton Fm., Cannon Mbr. Tennessee

manchuriense Endo

Endo, Riuji, 1932: p. 103, 104, pl. 27, fig. 6; pl. 40, fig. 6.
Holotype 83747
Wuting Fm. Manchuria, China

nagaoi Endo

Endo, Riuji, 1932: p. 104, pl. 21, fig. 11; pl. 40, fig. 2.
Holotype 83748
Ssuyen Fm.? Manchuria, China

neumani Flower

Flower, R. H., 1957: p. 27, pl. 1, fig. 5; pl. 5, fig. 9; pl. 6, fig. 6.
Holotype 139218
New Market Ls. Maryland

Ormoceras--Continued

normanense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 290, 291, pl. 53, figs. 3a-c; pl. 59, fig. 9.
Paratype (holotype listed as USNM 82235 at Vanderbilt University) 82235
Lowville Ls., Tyrone Mbr. Tennessee

orientale Endo

Endo, Riuji, 1932: p. 104, 105, pl. 21, figs. 1-4.
Holotype and paratype 83749, 83750
Ssuyen Fm. Manchuria, China

proximum Endo

Endo, Riuji, 1932: p. 105, 106, pl. 20, figs. 3, 4.
Holotype 83751
Ssuyen Fm. Manchuria, China

taii Endo

Endo, Riuji, 1932: p. 106, 107, pl. 22, fig. 8; pl. 40, fig. 10.
Holotype 83752
Ssuyen Fm. Manchuria, China

taitzuense Endo

Endo, Riuji, 1932: p. 107, pl. 22, fig. 7; pl. 40, fig. 4.
Holotype 83753
Ssuyen Fm. Manchuria, China

troosti Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 291, pl. 50, figs. 2a, b; pl. 59, fig. 3.
Holotype (part returned to Vanderbilt University) 82233
Trenton Fm., Catheys Ls. Mbr. Tennessee

sp.

Foerste, A. F., 1928a: pl. 7, figs. 6, 7.
Figured specimen 28197a
Trenton or Richmond ? Baffin Island, Canada

Endo, Riuji, 1932: p. 108, 109, pl. 22, fig. 9.
Figured specimen 83754
Ssuyen Fm. Manchuria, China

spp.

Endo, Riuji, 1932: p. 107, 108, pl. 22, figs. 1-3; pl. 14, fig. 5; pl. 16, fig. 11.
Figured specimens 83755-83758
Ssuyen Fm. Manchuria, China

Ormoceras--Continued

? spp.

Miller, A. K., et al., 1954: p. 62, 63, pl. 22, fig. 9; pl. 44, figs. 11, 12; pl. 50, figs. 3, 4; pl. 51, fig. 5, text-fig. 3.

Figured specimens	124604-124606, 124654
Upper Ordovician	Baffin Island, Canada
Figured specimen	124671
Upper Ordovician drift	Baffin Island, Canada

Orthoceras

aciculoides Clarke

Clarke, J. M., 1885: p. 51, pl. 2, fig. 11.

Syntype	14986
Naples Beds	New York

? adamsi Butts

Butts, Charles, 1926: p. 100, pl. 18, figs. 22, 23.

Holotype	71463
Odenville Ls.	Alabama

alienoides Foerste

Foerste, A. F., 1928c: p. 241, 242, pl. 51, fig. 1.

Syntypes	82166
Cedarville Dol.	Ohio.

alienoides ? Foerste

Foerste, A. F., 1928c: p. 241, 242, pl. 51, fig. 2; pl. 75, fig. 8. Explanation to pl. 51: ["Not known to belong to same species as living chamber here figured" (fig. 1)].

Figured specimen	82166
Cedarville Dol.	Ohio

(Cycloceras) amycus Hall

Foerste, A. F., 1893b: p. 546, pl. 33, fig. 5 (?).

Hypotype (hypotype of *O. (C.) annulatum* Sowerby in Foerste, 1890)	145003
Clinton Gr.	Ohio

angulatum Wahlenberg

Kindle, E. M., and Breger, C. L., 1904: p. 472, pl. 21, fig. 3.

Hypotype	62350
Niagaran	Indiana

Orthoceras--Continued

(Cycloceras) annulatum Sowerby

Foerste, A. F., 1890: p. 282, 283, pl. 8, fig. 5 (?).
Hypotype [hypotype of *O. (C.) amycus* Hall in Foerste, 1893b] 145003
Clinton Gr. Ohio

annulatum Sowerby

Whitfield, R. P., 1882: p. 298, 299, pl. 19, fig. 1.
Hypotype 137066
Waukesha Wisconsin

(Dawsonoceras) cf. *O. (A.) annulatum* Sowerby

Kindle, E. M., and Breger, C. L., 1904: p. 472, pl. 19, figs. 3, 4.
Figured specimen 62349
Niagaran Indiana

asmodeus Clarke

Clarke, J. M., 1885: p. 30, pl. 3, fig. 3.
Holotype 14989
Genesee Sh. New York

bilineatum Hall

Schuchert, Charles, 1900: p. 169.
Hypotype 28193
Trenton Baffin Island, Canada

(Spyroceras) bilineatum-frankfortensis Foerste

Foerste, A. F., 1910: p. 75, 76, pl. 1, figs. 6a, b.
Holotype 87191
Lexington Fm., Curdsville Bed Kentucky

byronense Foerste

Foerste, A. F., 1928c: p. 246, pl. 51, figs. 3a, b.
Holotype and paratypes 142786
Port Byron Mbr. Illinois

caneyanum Girty

Girty, G. H., 1909a: p. 45, 46, pl. 6, figs. 7, 8.
Syntypes 119570, 119571
Caney Sh. Oklahoma

caneyanum ? Girty

Girty, G. H., 1915b: p. 126, 127, pl. 5, figs. 9, 9a.
Figured specimen 119603
Batesville Ss. Arkansas

Orthoceras--Continued

carltonense Whitfield

Whitfield, R. P., 1878: p. 85.
Holotype 136759
Guelph Ls. Wisconsin

Whitfield, R. P., 1882: p. 318, pl. 24, fig. 5.
Holotype 136759
Guelph Ls. Wisconsin

choctawense Girty

Girty, G. H., 1909a: p. 46, pl. 6, figs. 14, 14a, b.
Holotype 119574
Caney Sh. Oklahoma

clarki Cleland

Cleland, H. F., 1911: p. 134, pl. 42, figs. 2, 2a.
Holotype 78330
Hamilton Wisconsin

clarksvillense Foerste

Foerste, A. F., 1924: p. 220, 221, pl. 42, figs. 1a, b.
Holotype 48255
Richmond Fm., Waynesville Mbr. Ohio

(Coleolus) clintonensis Foerste

Butts, Charles, 1941: p. 135, pl. 102, figs. 6, 7.
Hypotypes 97615a, b
Brassfield Horiz. Tennessee

colon White

White, C. A., 1874: p. 10.
Holotype 17392
Quebec Gr. equivalents Utah

White, C. A., 1877: p. 56, 57, pl. 3, figs. 5a-d.
Holotype 17392
Quebec Gr. equivalents Utah

crebriliratum Girty

Girty, G. H., 1909a: p. 46, pl. 6, figs. 9, 9a.
Syntypes (fig. 10 not located) 119572, 119573
Caney Sh. Oklahoma

aff. *O. crebriliratum* Girty

Girty, G. H., 1911a: p. 94.
Described specimens 120648, 120649
Moorefield Sh. Arkansas

Orthoceras--Continued

(Spyroceras ?) cf. *O. (S.) crotalum* Hall

Kindle, E. M., 1909: p. 36, pl. 10, fig. 12.
Figured specimen (described specimens not located) 62048
Ouray Ls. Colorado

erraticum Foerste

Foerste, A. F., 1893a: p. 235, text-figs. 1-3 (October); 1893b, p. 540, text-figs. 1-3 [as *O. (Eu-Orthoceras)*, month of publication unknown].
Syntypes 88549
Clinton Gr. Ohio

eurekensis Walcott

Walcott, C. D., 1884: p. 265, pl. 23, figs. 2, 2a.
Syntypes 14428
Carboniferous Ls. Nevada

eurekensis ? Walcott

Weller, Stuart, 1897: p. 270, pl. 21, figs. 3, 3a.
Figured specimen 119604
Batesville Ss. Arkansas

filosum Clarke

Clarke, J. M., 1885: p. 52, pl. 2, figs. 12-14.
Syntypes 14990
Naples Gr. New York

franklinense Miller

Miller, S. A., 1894: p. 322, 323, pl. 10, fig. 3.
Holotype 64336
Niagara Gr. Indiana

gorbyi Miller

Miller, S. A., 1894: p. 322, pl. 10, fig. 2.
Syntype 64337
Hudson River Gr. Indiana

guadalupense Girty

Girty, G. H., 1908: p. 497, pl. 23, figs. 10, 10a, b.
Holotype 118620
Delaware Mountain Fm. Texas

Orthoceras--Continued

(Dawsonoceras) hammelli Foerste

Foerste, A. F., 1910: p. 74, 75, pl. 1, fig. 4.
Holotype 87190
Saluda Bed Indiana

(Eu-Orthoceras ?) hanoverense Foerste

Foerste, A. F., 1889: p. 280, 281, pl. 7, fig. 6.
Holotype 142787
Clinton Gr. Indiana

(Ormoceras ?) hitzi Foerste

Foerste, A. F., 1910: p. 77, 78, pl. 1, fig. 3; pl. 2, fig. 22.
Syntypes 87114
Richmond Fm., Saluda Bed,
Hitz Layer Indiana

(Eu-Orthoceras ?) ignotum Foerste

Foerste, A. F., 1893b: p. 539-541, pl. 36, figs. 6a-c (?) p. 540, text-figs. 5-7.
Hypotypes 88554a-c
Clinton Gr. Ohio

cf. *O. imbricatum* Sowerby

Bastin, E. S., and Williams, H. S., 1914: pl. 21, figs. 1, 1a, 11.
Figured specimen 62929
Pembroke Fm. Maine

inceptum Foerste

Foerste, A. F., 1885: p. 117, 118, pl. 13, figs. 1a-c.
Syntypes 88551, 88646
Clinton Gr., Beavertown Marl Ohio

inceptum acceleratum Foerste

Foerste, A. F., 1893b: p. 545, pl. 37a, fig. 10.
Holotype 88550
Clinton Gr. Ohio

indianum Girty

Girty, G. H., 1909a: p. 47, pl. 6, figs. 13, 13a.
Holotype 119575
Caney Sh. Oklahoma

Girty, G. H., 1915b: p. 126, pl. 5, figs. 7, 7a.
Hypotypes (1 specimen not located) 119602
Batesville Ss. Arkansas

Orthoceras--Continued

(Spyroceras ?) jamesi Hall and Whitfield

Foerste, A. F., 1890: p. 283, pl. 7, fig. 3.
Hypotype 140315
Clinton Gr. Ohio

junceum Hall

Bassler, R. S., 1919: p. 323, pl. 51, figs. 4-7.
Hypotypes (figs. 4, 5 not located) 66162a, b
Martinsburg Sh. Pennsylvania

kingii Meek

Meek, F. B., 1877: p. 47, 48, pl. 2, fig. 8.
Holotype 14020
Devonian Nevada

lambtonense Whiteaves

Whiteaves, J. F., 1898: p. 404, 405.
Syntypes 26442
Hamilton Fm. Ontario, Canada

aff. *O. (Actinoceras) lato-nummulatum* Foerste

Foerste, A. F., 1893b: p. 538, pl. 35, figs. 4a-c.
Figured specimen 142778
Clinton Gr. Ohio

lesueuri Clarke

Clarke, J. M., 1897: p. 785, 786, pl. 55, fig. 8.
Syntype 46528
Trenton Ls. Illinois

liaotungense Endo

Endo, Riuji, 1932: p. 66, pl. 13, fig. 6.
Holotype 83683
Ssuyen Fm. Manchuria, China

magnichinense Endo

Endo, Riuji, 1932: p. 65, 66, pl. 38, figs. 1, 2.
Holotype 83682
Upper ? Ordovician Shensi, China

medullare Hall

Kindle, E. M., and Breger, C. L., 1904: p. 469, pl. 19, figs. 1, 2.
Hypotype 62348
Niagaran Indiana

Orthoceras--Continued

mephisto Clarke

Clarke, J. M., 1885: p. 29, 30, pl. 3, fig. 2.
Holotype 14992
Genesee Sh. New York

(Loxoceras) milleri Foerste [also listed as *O. (L ?) milleri*]

Foerste, A. F., 1910: p. 76, pl. 1, fig. 5; pl. 2, figs. 2a, b.
Syntype 87113
Perryville Bed Kentucky

moodiense Foerste

Foerste, A. F., 1928c: p. 242, pl. 52, fig. 1.
Holotype 82165
Cedarville Dol. Ohio

multicameratum Emmons

Butts, Charles, 1941: p. 99, pl. 92, fig. 11.
Hypotype 97484
Moccasin (red) Fm. Virginia

multicameratum ? Hall

Walcott, C. D., 1884: p. 86, pl. 12, fig. 3.
Figured specimen 17381
Pogonip Gr. Nevada

(Cycloceras) nova-carlislensis Foerste

Foerste, A. F., 1890: p. 281, 282, pl. 5, fig. 25.
Holotype ? 108492
Clinton Gr. Ohio

olorus baffinense Schuchert

Schuchert, Charles, 1900: p. 169, pl. 12, figs. 19-22.
Syntypes 28192a-c
Trenton Baffin Island, Canada

ontario Clarke

Clarke, J. M., 1885: p. 51, 52, pl. 3, fig. 1.
Holotype 14991
Naples Gr. New York

(Kionoceras) orus (Hall)

Kindle, E. M., and Breger, C. L., 1904: p. 469, pl. 25, fig. 2.
Hypotype 52951
Niagara Gr. Indiana

Orthoceras--Continued

parlinense Williams and Breger

Williams, H. S., and Breger, C. L., 1916: p. 283, pl. 13, fig. 25.
Holotype 59873
Moose River Ss. Maine

parlinense ? Williams and Breger

Williams, H. S., and Breger, C. L., 1916: p. 283, pl. 13, fig. 21.
Figured specimen 59873
Moose River Ss. Maine

(Dawsonoceras) perelegans Salter

Bastin, E. S., and Williams, H. S., 1914: pl. 21, fig. 18.
Hypotype 62939
Pembroke Fm. Maine

porteri Schuchert

Schuchert, Charles, 1900: p. 169, 170, pl. 12, figs. 23-25.
Holotype 28194
Trenton Baffin Island, Canada

princiana Williams and Breger

Williams, H. S., and Breger, C. L., 1916: p. 282, 283, pl. 13, fig. 17.
Holotype 59872
Moose River Ss. Maine

randolphensis ? Worthen

Walcott, C. D., 1884: p. 265, pl. 18, fig. 17.
Figured and described specimens 14429
Carboniferous Ls. Nevada

rectiseptatum Endo

Endo, Riuji, 1932: p. 66, 67, pl. 25, fig. 1.
Holotype 83684
Wuting Fm. Manchuria, China

(Eu-Orthoceras ?) rectum var. *junior (junius* of 1893) Foerste

Foerste, A. F., 1890: p. 278, (?) pl. 7, fig. 1.
Paratypes (2 specimens not located) 142788
Clinton Gr. Indiana

Foerste, A. F., 1893b: p. 539, (?) pl. 32, fig. 1.
Paratypes (2 specimens not located) 142788
Clinton Gr. Indiana

Orthoceras --Continued

rogersensis Foerste

Foerste, A. F., 1914: p. 143, 144, pl. 1, figs. 17a, b.
Syntypes 87193
Cynthiana Fm. Kentucky

rushensis McChesney

White, C. A., 1884: p. 164, pl. 36, fig. 5.
Hypotypes 66759
"Coal Measures," Coal A Indiana

rushensis ? McChesney

White, C. A., 1891: p. 22, pl. 2, figs. 14-16.
Figured specimens 21713a-c
Permian Texas

scalariformis Schuchert

Schuchert, Charles, 1900: p. 170, pl. 12, figs. 17, 18.
Holotype 28195
Trenton Baffin Island, Canada

shatzeri Foerste

Foerste, A. F., 1928c: p. 242, 243, pl. 52, fig. 2.
Holotype 81914
Cedarville Dol. Ohio

toyamai Endo

Endo, Riuji, 1932: p. 67, 68, pl. 13, figs. 4, 5, 13; pl. 40, fig. 17.
Holotype and paratype 83685, 83686
Ssuyen Fm.? Manchuria, China

tuba Girty

Girty, G. H., 1911b: p. 142, 143.
Syntypes 120692, 120693
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 224, 225, pl. 26, figs. 1, 2.
Syntypes 120692, 120693
Wewoka Fm. Oklahoma

tuba ? Girty

Girty, G. H., 1915a: p. 224, 225, pl. 26, figs. 3, 4.
Figured specimens 120694, 120695
Wewoka Fm. Oklahoma

Orthoceras --Continued

(Actinoceras) turgido-nummulatum Foerste

Foerste, A. F., 1893b: p. 538, pl. 35, fig. 1.
Hypotype 108487
Clinton Gr. Ohio

tyronensis Foerste

Foerste, A. F., 1912: p. 139, pl. 10, figs. 5a, b.
Syntypes 87109, 87111
Black River Fm., Tyrone Mbr. Kentucky

wapanuckense Girty

Girty, G. H., 1909a: p. 44, 45, pl. 6, fig. 11, 12.
Holotype and paratypes (only 1 paratype located) 119568, 119569
Caney Sh. Oklahoma

whitfieldi Foerste

Foerste, A. F., 1928c: p. 243, 244, pl. 50, fig. 3.
Paratypes 82176
Cedarville Dol. Ohio

wilmingtonense Foerste

Foerste, A. F., 1928c: p. 247, pl. 73, figs. 2a, b; pl. 74, fig. 1b.
Holotype and paratype 82178
Cedarville Dol. Ohio

(Actinoceras) youngi Foerste

Foerste, A. F., 1893b: p. 537, 538, pl. 36, fig. 1 (?).
Hypotype 145004
Clinton Gr. Ohio

sp. A

Girty, G. H., 1911a: p. 94, 95, pl. 13, fig. 1.
Figured specimen 119608
Moorefield Sh. Arkansas

sp. B

Girty, G. H., 1911a: p. 95.
Described specimens 145005
Moorefield Sh. Arkansas

sp. A (*not* sp. A of Girty, 1911a)

Girty, G. H., 1915a: p. 225, 226, pl. 27, fig. 13.
Figured specimen 120698
Wewoka Fm. Oklahoma

Orthoceras--Continued

sp. B (*not* sp. B of Girty, 1911a)

Girty, G. H., 1915a: p. 226, pl. 27, figs. 12, 12a.
Figured specimen 120699
Wewoka Fm. Oklahoma

sp. C

Girty, G. H., 1915a: p. 226, 227, pl. 26, figs. 8, 8a.
Figured specimen 120700
Wewoka Fm. Oklahoma

sp.

Meek, F. B., 1865: p. 33.
Described specimen 25681
Lower Helderberg ? Ellesmere Island, Canada

Meek, F. B., 1877: p. 48, pl. 2, fig. 9.
Figured specimen 14012
Devonian Nevada

Walcott, C. D., 1884: p. 87, text-figs. 1, 2; pl. 2, fig. 1b, 2.
Figured specimens 17384, 17385
Pogonip Gr. Nevada

Girty, G. H., 1909b: p. 112, 113, pl. 12, figs. 2, 2a, b.
Figured specimen 119424
Abo Ss. New Mexico

Bastin, E. S., and Williams, H. S., 1914: pl. 16, fig. 12.
Figured specimen 62910
Quoddy Fm. Maine

Foerste, A. F., 1928: p. 246, 247, pl. 74, fig. 2.
Figured specimen 81915
Cedarville Dol. Ohio

Endo, Riuji, 1932: p. 68, pl. 13, figs. 8, 9.
Figured specimen 83689
Ssuyen Fm. ? Manchuria, China

Butts, Charles, 1941: p. 200, pl. 119, figs. 26, 27.
Figured specimens 98000a, b
Marcellus Sh. Virginia

Osbornoceras

swinnertoni Foerste

Foerste, A. F., 1936b: p. 265, 266, pl. 1, figs. 1, 2; text-fig. 1.
Holotype 91091
Brassfield Ls. Ohio

267-454 O - 68 - 8

Pachendoceras

confertum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 121, 122, pl. 63, figs. 6-9.
Holotype and paratype 109596, 109597
Gasconade Dol. Missouri

Unklesbay, A. G., 1961: p. 374, pl. 52, fig. 10.
Hypotype 143000
Gorman Fm., Roubidoux Horiz. Texas

confertum ? Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 121, 122.
Described specimens 109602
Chepultepec Dol. Alabama

huzzahense (Ulrich and Foerste)

Ulrich, E. O., et al., 1944: p. 120, 121, pl. 61, figs. 3, 6-10; pl. 62, figs. 1-9; pl. 63, figs. 1-5; pl. 64, figs. 2-7.
Hypotypes 109593, 109594
Gasconade Dol. Missouri

newportense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 122, pl. 32, fig. 1; pl. 63, fig. 11.
Holotype and paratype 109598, 109599
Longview Ls. Virginia

tardum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 123, pl. 63, fig. 10.
Holotype 109600
Gasconade Dol. Missouri

? sp.

Ulrich, E. O., et al., 1944: p. 123, pl. 64, fig. 1.
Figured specimen 109601
Gasconade Dol. Missouri

Paractinoceras

canadense (Whiteaves)

Miller, A. K., et al., 1954: p. 65, 66, pl. 29, figs. 1-3.
Hypotype 124690
Upper Ordovician Baffin Island, Canada

lamellosum (Hall)

Ruedemann, Rudolf, 1926: p. 102, 103, pl. 14, fig. 5; pl. 15, fig. 2.
Hypotypes 92607, 92608
Pulaski Sh. (drift) New York

Practinoceras --Continued

? pusillum Ruedemann

Ruedemann, Rudolf, 1926: p. 103, 104, pl. 16, figs. 4-6; text-fig. 25.
Holotype and paratype 96206, 96206a
Upper Lorraine, Pulaski Sh.
(drift) New York

? sp.

Miller, A. K., et al., 1954: p. 66, pl. 22, figs. 7, 8; pl. 28, figs. 1, 2; pl. 32, figs. 3, 4; pl. 50, figs. 8-10.
Figured specimens 124571, 124571a, 124589, 124689
Upper Ordovician Baffin Island, Canada

Paraendoceras

chadwickense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 124, pl. 65, figs. 6, 7.
Holotype 109603
Cotter Dol. Missouri

clinchburgense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 125, pl. 66, figs. 3-5.
Holotype and paratypes 109604-109606
Cotter Dol. Virginia

cullisoni Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 125, pl. 65, figs. 4, 5.
Holotype 109607
Jefferson City Dol. Missouri

Unklesbay, A. G., 1961: p. 375, pl. 52, fig. 2.
Hypotype 143004
Jefferson City Horiz. Texas

levisense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 126, pl. 65, figs. 1, 2.
Holotype 109608
Upper Ozarkian ? Boulder
in Levis Sh. Quebec, Canada

rusti Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 126, pl. 66, figs. 1, 2.
Holotype 109609
St. Armand Ls. Quebec, Canada

Penhsioceras

fusiforme Endo

Endo, Riuji, 1932: p. 65, pl. 32, figs. 8-10.
Holotype and paratype 83680, 83681
Santao Fm. Manchuria, China

Pentameroceras

cf. *P. mirum* (Barrande)

Foerste, A. F., 1930a: p. 379, 380, pl. 49, figs. 7a, b.
Figured specimen (not located) Unnumbered
Peebles Mbr. Ohio

Phacoceras

dumbli Hyatt

Hyatt, Alpheus, 1891: p. 347-349, text-figs. 50, 51.
Syntype 142789
Carboniferous Kansas

Phragmoceras

altidorsatum Foerste

Foerste, A. F., 1930a: p. 329, pl. 57, fig. 3.
Holotype 81938
Cedarville Dol. Ohio

altum Foerste

Foerste, A. F., 1936a: p. 89, 90.
Paratype 92808
Gascons Fm. Quebec, Canada

colliciare Foerste

Foerste, A. F., 1930a: p. 339-341, pl. 52, figs. 2a, b.
Holotype and paratype 82070
Cedarville Dol. Ohio

cuneiforme Foerste

Foerste, A. F., 1930a: p. 342, pl. 50, fig. 3.
Holotype and paratypes 82174
Cedarville Dol. Ohio

cf. *P. ellipticum* Hall and Whitfield

Kindle, E. M., and Breger, C. L., 1904: p. 477, 478, pl. 19, fig. 5 (as *P. ellipticum*).
Figured specimen 52949
Niagara Gr. Indiana

Phragmoceras--Continued

hoyi Whitfield

Whitfield, R. P., 1878: p. 86.
Holotype 136787
Racine Ls. Wisconsin

Whitfield, R. P., 1882: p. 300, 301, pl. 19, figs. 4, 5.
Holotype 136787
Racine Ls. Wisconsin

hoyi compressum Whitfield

Whitfield, R. P., 1878: p. 86.
Holotype 137056
Racine Ls. Wisconsin

Whitfield, R. P., 1882: p. 301, pl. 20, fig. 3.
Holotype 137056
Racine Ls. Wisconsin

labiatum Whitfield

Whitfield, R. P., 1878: p. 86, 87.
Holotype 136057
Niagara Gr. Wisconsin

Whitfield, R. P., 1882: p. 302, pl. 20, figs. 1, 2.
Holotype 136057
Niagara Gr. Wisconsin

ontarioense Foerste

Foerste, A. F., 1930b: p. 101, 102, pl. 19, figs. 4a, b, 5.
Hypotypes 81449, 81449a
Port Byron Dol. Illinois

parvum Hall and Whitfield

Kindle, E. M., and Breger, C. L., 1904: p. 477, pl. 25, figs. 3, 4.
Hypotype 52955
Niagara Gr. Indiana

sp.

Foerste, A. F., 1930a: p. 347, pl. 61, fig. 3; p. 334, 335, pl. 54, figs. 2a, b.
Figured specimen 81918
Cedarville Dol. Ohio
Figured specimen 81948
Peebles Mbr. Ohio

Piloceras

aff. *P. hornei* Ulrich, Foerste, and Miller

Cloud, P. E., Jr., and Barnes, V. E., 1948: p. 455, pl. 41, fig. 45.
Figured specimen 140094
Gorman Fm. Texas

manchuriense Endo

Endo, Riuji, 1932: p. 63, 64, pl. 32, figs. 5-7; pl. 33, figs. 14, 15.
Holotype and paratype 83678, 83679
Santao Fm. Manchuria, China

saffordi Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 24, 25, pl. 6, figs. 4-8.
Holotype and paratype 108222, 108223
Knox Dol. Tennessee

saffordi ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 24, 25.
Described specimen 108224
Knox Dol. Tennessee

sp.

Ulrich, E. O., et al., 1943: p. 25, pl. 34, fig. 7.
Figured specimen 108225
El Paso Ls. Texas

Pionoceras

pomponium (Billings)

Ulrich, E. O., et al., 1942: p. 64, 65, pl. 6, fig. 1; pl. 41, figs. 1, 2; pl. 42, fig. 5.
Neoparatypes 101399
St. Armand Ls. Quebec, Canada

smithvillense Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 65, 66, pl. 12, figs. 1, 2; plate 18, figs. 1-3.
Syntypes 101400, 101401
Smithville Ls. Arkansas

swartzi Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 66, pl. 43, figs. 3-5.
Holotype 101402
Bellefonte Fm. Pennsylvania

Pionoceras--Continued

swartzi ? Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 66.
Described specimen 101403
Bellefonte Fm. Pennsylvania

vokesi Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 66, 67, pl. 42, fig. 4; pl. 44, figs. 1-3; pl. 45, figs. 1, 2.
Holotype 101404
Cassin Fm. Vermont
Paratypes 101405
St. Armand Ls. Quebec, Canada

Plectoceras

ohtakai Endo

Endo, Riuji, 1932: p. 73, 74, pl. 24, fig. 1.
Holotype 83696
Wuting Fm. ? Manchuria, China

sewardense Flower (as "*Plectoceras*")

Flower, R. H., 1941b: p. 14-17, pl. 2, figs. 1, 2.
Holotype and paratype 108485, 108486
Canadian Alaska

manitouense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 84, pl. 43, fig. 24.
Holotype 109526
Manitou Ls. Colorado

odenvillense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 85, pl. 43, fig. 23.
Holotype 109527
Odenville Ls. Alabama

philipsburgense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 86, pl. 41, figs. 4-8.
Holotype and paratypes 109528-109530
St. Armand Ls. Quebec, Canada

?rushense ? (McChesney)

Girty, G. H., 1915a: p. 235, 236, pl. 27, figs. 9, 9a, b, 10, 10a, b.
Figured specimens 120690, 121119
Wewoka Fm. Oklahoma

Plectoceras--Continued

? rushense crebricinctum Girty

Girty, G. H., 1911b: p. 144.
Syntypes (1 not located) 120689
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 236, 237, pl. 27, figs. 11, 11a, b.
Syntypes (unfigured syntype not located) 120689
Wewoka Fm. Oklahoma

smithvillense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 86, 87, pl. 43, figs. 11-17.
Holotype and paratypes 109531-109533
Smithville Fm. Arkansas

sp.

Ulrich, E. O., et al., 1944: p. 88, pl. 29, fig. 8.
Figured specimen 109534
Sarbach Fm. Alberta, Canada

Poterioceras

sp.

Schuchert, Charles, 1900: p. 173.
Described specimen (holotype of *Diestoceras schucherti* Foerste, 1928) 28122
Trenton Baffin Island, Canada

? sp.

Miller, A. K., and Youngquist, Walter, 1948: p. 653, pl. 94, fig. 9.
Figured specimen 113015
Barnett Fm. Texas

? spp.

Gutschick, R. C., and Treckman, J. F., 1957: p. 1151, pl. 143, figs. 3, 9-11.
Figured specimens 136471-136473
Rockford Ls. Indiana

Probillingsites

belli Miller, Youngquist, and Collinson

Miller, A. K., et al., 1954: p. 109, pl. 54, figs. 1-10; text-fig. 14.
Holotype and paratypes 124619, 124588, 124618a-d
Upper Ordovician Sh. Baffin Island, Canada

Probillingsites--Continued

milleri Foerste

Foerste, A. F., 1935: p. 18, pl. 1, fig. 3.
Holotype 90900
Prosser Ls. Iowa

sp.

Miller, A. K., et al., 1954: p. 110, pl. 51, figs. 8, 9.
Figured specimen 124577
Upper Ordovician Baffin Island, Canada

Proterocameroceras

brainerdi (Whitfield)

Ulrich, E. O., et al., 1944: p. 71-73, pl. 30, figs. 1-4; pl. 31, figs. 2-4; pl. 32, fig. 6; pl. 33, figs. 1, 2, 5, 6; pl. 35, figs. 1, 2.
Hypotypes 48207, 59461
Cassin Ls. Vermont

Protocycloceras

abnorme Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 80, pl. 39, figs. 1-6.
Holotype and paratypes 109513-109515
St. Armand Ls. Quebec, Canada

affine Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 81, pl. 41, figs. 9-13; pl. 42, fig. 10.
Holotype and paratypes 109516-109518
St. Armand Ls. Quebec, Canada

arkansasense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 81, pl. 43, figs. 1-10.
Holotype and paratypes 109519-109521
Smithville Fm. Arkansas

doniphonense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 82, pl. 29, figs. 9-11.
Holotype 109522
Roubidoux Fm. Missouri

foerstei Butts

Butts, Charles, 1926: p. 99, 100, pl. 18, figs. 24, 25.
Syntypes 71464
Odenville Ls. Alabama

Protocycloceras--Continued

geronticum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 83, pl. 41, figs. 1-3.
Holotype and paratypes 109523-109525
St. Armand Ls. Quebec, Canada

manitouense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 84, pl. 43, fig. 24
Holotype 109526
Manitou Ls. Colorado

odenvillense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 85, pl. 43, fig. 23.
Holotype 109527
Odenville Ls. Alabama

philipsburgense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 86, pl. 41, figs. 4-8.
Holotype and paratypes 109528-109530
St. Armand Ls. Quebec, Canada

? *rushense* ? (McChesney)

Girty, G. H., 1915a: p. 235, 236, pl. 27, figs. 9, 9a, b, 10, 10a, b.
Figured specimens 120690, 121119
Wewoka Fm. Oklahoma

? *rushense crebricinctum* Girty

Girty, G. H., 1911b: p. 144.
Syntypes (1 not located) 120689
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 236, 237, pl. 27, figs. 11, 11a, b.
Syntypes (unfigured syntype not located) 120689
Wewoka Fm. Oklahoma

smithvillense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 86, 87, pl. 43, figs. 11-17.
Holotype and paratypes 109531-109533
Smithville Fm. Arkansas

sp.

Ulrich, E. O., et al., 1944: p. 88, pl. 29, fig. 8.
Figured specimen 109534
Sarbach Fm. Alberta, Canada

Protokionoceras

oneidaense (Walcott)

Ruedemann, Rudolf, 1926: p. 93, 94, pl. 10, fig. 11; pl. 16, fig. 1.
Hypotypes 96228, 96239
Utica Sh. New York

perstrigatum Foerste

Foerste, A. F., 1936a: p. 37, 38, pl. 23, fig. 1.
Holotype 92790
Gascons Fm. Quebec, Canada

Pseudorthoceras

knoxense (McChesney)

Girty, G. H., 1915a: p. 227-234, pl. 27, figs. 1-6.
Hypotypes 120687, 120685, 121107-121109, 121117
Wewoka Fm. Oklahoma

Miller, A. K., and Youngquist, Walter, 1949: p. 18, pl. 3, figs. 2-8; pl. 55, figs. 15-17.
Hypotypes 120712a-g
Admiral Fm., Wildcat Creek Sh. Mbr. Texas
Hypotypes (figs. 15-17 not located) 120713
Clyde Fm., Grape Creek Ls. Texas

seminolense Girty

Girty, G. H., 1911b: p. 143, 144.
Syntypes 120686, 121118
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 234, pl. 27, figs. 7, 8, 8a.
Syntypes 120686, 121118
Wewoka Fm. Oklahoma

sp.

Gordon, Mackenzie, Jr., 1957: p. 26, 27, pl. 2, fig. 22.
Figured specimen 118994
Calico Bluff Fm. Alaska

Pycnoceras

clausum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 28, 29, pl. 7, figs. 5-14.

Holotype and paratypes	101343, 101344, 101345, 101349
Jefferson City Fm.	Missouri
Paratypes	101346, 101348, 101350
Cotter Fm.	Missouri
Paratype	101347
Smithville Fm.	Arkansas

rotundatum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 29, pl. 7, figs. 1-4.

Syntypes	101351, 101352
Jefferson City Fm.	Missouri

Quebecoceras

? sp.

Butts, Charles, 1926: p. 88, pl. 14, figs. 6-9.

Figured specimens (holotype of *S. bessemerense* Ulrich, Foerste, and Miller, 1943; 71419 is *S. unguliforme* ? ibid, 1943)	71419, 71420
Copper Ridge Col.	Alabama
Figured specimen (holotype of *Dakeoceras subcurvatum* Ulrich and Foerste, 1931)	83535
Eminence Dol.	Missouri

Rayonnoceras

bassleri Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 259-261, pl. 52, figs. 1a, b; pl. 59, fig. 4.

Holotype	82216
Fayetteville Sh.	Locality unknown

buffaloense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 261, 262, pl. 48, figs. 2a, b.

Holotype	82220
Boulder in Caney Sh.	Oklahoma

girtyi Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 262, pl. 49, figs. 1a, b; pl. 50, fig. 1.

Holotype	82221
Boulder of St. Louis Ls. in Caney Sh.	Oklahoma

Rayonnoceras--Continued

rangifer Gordon

Gordon, Mackenzie, Jr., 1957: p. 19, pl. 1, figs. 1, 2, 9; text-fig. 7.

Holotype	118931
Upper Lisburne Gr.	Alaska
Paratypes	118992, 118993
Calico Bluff Fm.	Alaska

vaughanianum (Girty)

Foerste, A. F., and Teichert, Curt, 1930: p. 262, 263, pl. 48, fig. 1.

Hypotypes	82217, 82218
Caney Sh.	Oklahoma

cf. *R. vaughanianum*

Foerste, A. F., and Teichert, Curt, 1930: p. 264, pl. 51, fig. 1.

Figured specimen	82219
Mississippian ?	Oklahoma ?

? sp.

Gordon, Mackenzie, Jr., 1957: p. 20, pl. 1, figs. 7, 8.

Figured specimen	118932
Alapah Ls., black chert and sh. mbr.	Alaska

Reticycloceras

croneisi Gordon

Gordon, Mackenzie, Jr., 1960: p. 134, 135, pl. 27, figs. 9-11.

Holotype and paratypes	119029-119031, 119033, 119034, 119068
Pitkin Ls., upper sh. mbr.	Arkansas
Paratype	119032
Fayetteville Sh., upper sh. mbr.	Arkansas

Richardsonoceras

? subcuneatum Foerste

Foerste, A. F., 1935: p. 41, 42, pl. 7, figs. 3, 4.

Holotype	90918
Fremont Fm.	Colorado

wyomingense Foerste

Foerste, A. F., 1935: p. 40, 41, pl. 3, fig. 1.

Holotype	90917
Big Horn Fm., Lander Ss. Mbr.	Wyoming

Rineceras

digonum ? (Meek and Worthen)

Gutschick, R. C., and Treckman, J. F., 1957: p. 1150, pl. 143, figs. 6-8.
Figured specimen 136476
Rockford Ls. Indiana

Rizoceras

? *infundibuliforme* Foerste

Foerste, A. F., 1936a: p. 49, 50, pl. 23, fig. 3.
Holotype 92795
Gascons Fm. Quebec, Canada

? *pocilliforme* Foerste

Foerste, A. F., 1936a: p. 48, 49, pl. 23, fig. 4.
Holotype 92794
Gascons Fm. Quebec, Canada

Robsonoceras

manitouense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 74, pl. 2, figs. 13, 14.
Holotype 109504
Manitou Ls. Colorado

Rudolfoceras

cornu-oryx (Whitfield)

Ulrich, E. O., et al., 1944: p. 56, pl. 18, figs. 5, 6; pl. 19, figs. 4-6; pl. 20, figs. 6, 7.
Hypotypes 33448, 48284
Cassin Ls. Vermont

Sactoceras

depressum Foerste

Foerste, A. F., 1930b: p. 66, 67, pl. 8, figs. 6a, b.
Holotype and paratype 81429, 81429a
Port Byron Dol. Illinois

inaii Endo

Endo, Riuji, 1923: p. 76, 77, pl. 14, fig. 1.
Holotype 83700
Ssuyen Fm. Manchuria, China

Sactoceras--Continued

kobayashi Endo

Endo, Riuji, 1932: p. 74, 75, pl. 14, fig. 6; pl. 40, fig. 8.
Holotype 83697
Ssuyen Fm. Manchuria, China

liaotungense Endo

Endo, Riuji, 1932: p. 76, pl. 14, fig. 10.
Holotype 83699
Ssuyen Fm. Manchuria, China

niuhsinense Endo

Endo, Riuji, 1932: p. 75, 76, pl. 14, fig. 13; pl. 40, fig. 18.
Holotype 83698
Ssuyen Fm. Manchuria, China

sp.

Foerste, A. F., 1928c: p. 248, 249, pl. 52, fig. 3; pl. 75, fig. 9.
Figured specimen 81947
Cedarville Dol. Ohio

Endo, Riuji, 1932: p. 77, 78, pl. 13, fig. 7; pl. 14, fig. 11.
Figured specimens 83701, 83702
Ssuyen Fm. Manchuria, China

Saffordoceras

jeffersonense Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 286, pl. 38, fig. 16.
Holotype 92693
Roubidoux Fm. Tennessee

nelsoni Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 265, 266, pl. 53, fig. 1.
Plastoholotype (holotype listed as USNM 82224 at Vanderbilt University) 82224
Catheys Ls. Tennessee

Sceptrites

claviformis Flower

Flower, R. H., 1939b: p. 136, pl. 6, fig. 2.
Holotype 114464
Columbus Ls. Ohio

Sceptrites--Continued

obliquus Flower

Flower, R. H., 1939b: p. 136, 137, pl. 6, fig. 1.
Holotype 37228
Columbus Ls. Ohio

Schroederoceras

cassinense (Whitfield)

Hyatt, Alpheus, 1894: p. 473, 474, pl. 7, figs. 4-6.
Hypotype (hypotype of *Curtoceras eatoni* Ulrich, Foerste, Miller, and Furnish, 1942) 25661
Cassin Ls. Vermont

eatoni (Whitfield)

Hyatt, Alpheus, 1894: p. 470-473, pl. 7, figs. 7, 8.
Hypotypes 25660
Cassin Ls. Vermont

Shelbyoceras

bessemerense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 153, pl. 70, figs. 7, 8.
Holotype (*Quebecoceras* ? sp. of Butts, 1926) 71420
Copper Ridge Dol. Alabama

bessemerense ?

Ulrich, E. O., et al., 1943: p. 153, pl. 70, figs. 3-6.
Figured specimens (*Shelbyoceras* sp. of Ulrich and Foerste, 1931) 108470a, b
Potosi Dol. Missouri

buttsi Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 154, pl. 70, figs. 1, 2.
Holotype (*Levisoceras* sp. of Butts, 1926; part) 71423
Copper Ridge Dol. ? Alabama

robustum Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936: p. 287, 288, pl. 38, fig. 13.
Holotype 92694
Eminence Fm. Missouri

Shelbyoceras--Continued

unguliforme Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 154, 155, pl. 70, figs. 11-12.
Holotype (*Levisoceras* sp. of Butts, 1926; part) 108473 (reassigned from 71423)
Copper Ridge Dol. ? Alabama

unguliforme ? Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 154, 155, pl. 70, figs. 9, 10.
Figured specimen (*Quebecoceras* ? sp. of Butts, 1926) 71419
Copper Ridge Col. ? Alabama

sp.

Ulrich, E. O., and Foerste, A. F., 1931: p. 207, 208, pl. 18, figs. 1, 2.
Figured specimens (*S. bessemerense* ? of Ulrich, Foerste, and Miller, 1943) 108470a, b
Potosi Dol. Missouri

Shumardoceras

complanatum (Shumard)

Ulrich, E. O., et al., 1942: p. 30, pl. 9, figs. 1-11; text-fig. 1c.
Neosyntypes, hypotypes 101353-101359, 101361
Jefferson City Fm. Missouri

complanatum ? (Shumard)

Ulrich, E. O., et al., 1942: p. 30, 31.
Described specimens 101360
Cotter Fm. Missouri

fragile Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et. al., 1942: p. 31, pl. 9, fig. 14.
Holotype 101362
Jefferson City Fm. Missouri

taneyense Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 32, pl. 4, fig. 3; pl. 9, figs. 12, 13.
Holotype and paratype 101363
Cotter Fm. Missouri

taneyense ? Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 32.
Described specimens 101364, 101365
Jefferson City Fm. Missouri

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Slocomoceras

retrorsum Foerste

Foerste, A. F., 1930b: p. 86, 87, pl. 15, figs. 1a, b, 2a, b, 3a-c, 4, 5.

Holotype and paratypes	81442, 81442a-d
Port Byron Dol.	Illinois

Smithvilloceras

thompsoni Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 155, pl. 62, figs. 7-11.

Holotype and paratypes	108471a-c, 108472
Smithville Fm.	Arkansas

Solenocheilus

? sp.

Girty, G. H., 1915b: p. 129, pl. 5, fig. 10.

Figured specimen	119605
Batesville Ss.	Arkansas

Spyroceras

cf. *S. anellus* (Conrad)

Foerste, A. F., 1935: p. 25, pl. 11, fig. 6.

Figured specimen	90904
Big Horn Fm., Lander Ss. Mbr.	Wyoming

baffinense (Schuchert)

Miller, A. K., et al., 1954: p. 59-61, pl. 24, figs. 1-4; pl. 25, figs. 1-9; pl. 26, figs. 1-8; pl. 27, figs. 1-8; pl. 44, figs. 9, 10; text-fig. 2.

Hypotypes (pl. 27, fig. 8 not located)	124576, 124580, 124602, 124603, 124616, 124633
Upper Ordovician	Baffin Island, Canada

barbense Foerste

Foerste, A. F., 1936a: p. 40, 41, pl. 23, figs. 5, 6.

Holotype and paratype	92791, 92791a
Gascons Fm.	Quebec, Canada

bilineatum (Hall)

Bassler, R. S., 1919: p. 325, 326, pl. 51, fig. 3.

Hypotype	66163
Martinsburg Sh.	Pennsylvania

Spyroceras--Continued

? distoannulatum Foerste

Foerste, A. F., 1935: p. 26, 27, pl. 6, fig. 4.
Holotype 90905
Big Horn Fm., Lander Ss. Mbr. Wyoming

mcfarlani Foerste

Foerste, A. F., 1932: p. 107, 108, pl. 14, fig. 5.
Holotype 87115
Trenton Fm., Perryville Mbr. Kentucky

microtextile Foerste

Foerste, A. F., 1923: p. 87, pl. 15, fig. 2a-c.
Syntypes 72022
Argillaceous strata immediately beneath the Brassfield Ls. Ohio

ruedemanni Foerste

Foerste, A. F., 1928c: p. 281-283, pl. 61, figs. 3c, d, g; pl. 63, fig. 7.
Syntypes 82175
Cedarville Dol. Ohio
Syntype 82175
Port Byron Mbr. Illinois

whitcombi Foerste

Foerste, A. F., 1932: p. 109, 110, pl. 13, figs. 2a-c.
Holotype and paratype 89431
Salona Fm. Pennsylvania

sp.

Endo, Riuji, 1932: p. 73, pl. 38, fig. 5.
Figured specimen 83695
Upper Ordovician Shensi, China

Foerste, A. F., 1936a: p. 42, pl. 23, fig. 2.
Figured specimen 92792
Gascons Fm. Quebec, Canada

Stearoceras

hesperium Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1949: p. 53, 54, pl. 20, figs. 1, 2.
Holotype 120823
Leonard Fm. Texas

Stemtonoceras

elongatum Ulrich and Foerste

Ulrich, E. O., and Foerste, A. F., 1936b: p. 289, pl. 38, fig. 3.
Holotype 92695
Upper Ozarkian Pennsylvania

Ulrich, E. O., et al., 1944: p. 29.
Hypotypes 109431
Upper Ozarkian Pennsylvania

Stenogomphoceras

chadwicki Foerste

Foerste, A. F., 1930a: p. 368, 369, pl. 61, figs. 2a-d.
Holotype 81451
Port Byron Dol. Illinois

cf. *S. chadwicki* Foerste

Foerste, A. F., 1930b: p. 122, pl. 23, figs. 1a, b.
Figured specimen 81455
Port Byron Dol. Illinois

contractum Foerste

Foerste, A. F., 1930b: p. 120, 121, pl. 24, figs. 5a, b.
Holotype and paratypes 81453
Port Byron Dol. Illinois

gracile Foerste

Foerste, A. F., 1930b: p. 121, 122, pl. 24, figs. 8a, b.
Holotype 81454
Port Byron Dol. Illinois

inflatum Foerste

Foerste, A. F., 1930b: p. 119, 120, pl. 24, figs. 4a-c.
Paratype 81452
Port Byron Dol. Illinois

cf. *S. inflatum* Foerste

Foerste, A. F., 1930b: p. 119, 120, 122, pl. 24, figs. 7a-c.
Figured specmen 81452a
Port Byron Dol. Illinois

? sp.

Foerste, A. F., 1934: p. 190, 191, pl. 32, figs. 3a, b.
Figured specimen 81926
Cedarville Dol. Ohio

Stenopoceras

inexpectans Miller

Miller, A. K., 1945: p. 292, 293, pl. 44, figs. 5, 6.
Holotype 111622
Leonard Fm. Texas

Miller, A. K., and Youngquist, Walter, 1949: p. 75, 76, pl. 26, figs. 1-10; pl. 40, fig. 5.
Hypotypes 120827-120830
Leonard Fm. Texas

whitei Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1949: p. 76, 77; text-fig. 22.
Paratypes (formerly *Nautilus* _____? of White, 1891) 21709
Grape Creek Ls. Texas

sp.

Miller, A. K., and Youngquist, Walter, 1947: p. 6, 7, pl. 1, figs. 13, 14.
Figured specimen 120724
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

Miller, A. K., and Youngquist, Walter, 1949: p. 79, 80, pl. 44, fig. 2.
Figured specimen 120723
Hueco Ls. Texas

Stroboceras

crispum Gordon

Gordon, Mackenzie, Jr., 1957: p. 28, 29, pl. 3, figs. 1-4, text-figs. 9a, b.
Holotype and paratype 118949, 118950
Alapah Ls. Alaska

Stylocyrtoceras

avaense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 54, 55, pl. 10, figs. 8, 9.
Holotype 109474
Jefferson City Dol. Missouri

Suecoceras

inaequable (Miller)

Foerste, A. F., 1910: p. 73, 74, pl. 1, figs. 1, 2.
Hypotype 87189
Richmond Gr., Waynesville Mbr. Indiana
Hypotype 100169
Richmond Gr., Waynesville Bed, Clarksville Div. Ohio

Tainoceras

clydense Miller and Kemp

Miller, A. K., and Kemp, A. H., 1947: p. 352.
Syntype (hypotype of *Nautilus occidentalis* Swallow, in White, 1891) — 21712
Clyde Fm. — Texas

(or *Metacoceras* or *Foordiceras*) *clydense* ? Miller and Kemp

Miller, A. K., and Youngquist, Walter, 1949: p. 84, 85.
Described specimen *Nautilus (Endolobus)* _____ ? of White, 1891) — 21707
Permian — Texas

Tarphyceras

chadwickense Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 38, pl. 13, fig. 1; pl. 14, figs. 1, 2, pl. 27, fig. 4.
Holotype and paratypes — 101374
Cotter Fm. — Missouri
Paratype — 101375
Powell Fm. — Missouri

chadwickense ? Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 38, 39, pl. 36, fig. 3.
Figured specimen — 101376
Arbuckle Ls. — Oklahoma

cf. *T. chadwickense* Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 38, 39, pl. 37, fig. 4.
Figured specimen — 101377
Powell Fm. — Arkansas

champlainense (Whitfield)

Hyatt, Alpheus, 1894: p. 438-441, pl. 4, figs. 4-11.
Hypotypes (syntypes of *Centrotarphyceras subundosum* Ulrich, Foerste, Miller, and Furnish, 1942) — 25657 (unnecessarily changed to 101391)
Cassin Ls. — Vermont

macdonaldi Hyatt

Hyatt, Alpheus, 1894: p. 435.
Syntypes — 25656
Cotter Horiz. (label); no stratigraphic data given in text. — Virginia

Tarphyceras --Continued

or *Eurystomites*

Butts, Charles, 1926: p. 96, pl. 17, fig. 14.
Figured specimen (described specimen of *Campbelloceras brevicameratum* ? Ulrich, Foerste, Miller, and Furnish, 1942) — 71455
Newala Ls. — Alabama

Temnocheilus

crassus Hyatt

Hyatt, Alpheus, 1891: p. 333, text-figs. 27-29.
Holotype — 23868
Carboniferous — Kansas

depressus Hyatt

Hyatt, Alpheus, 1891: p. 331, 332, text-figs. 25, 26.
Holotype — 23867
Carboniferous — Kansas

inaequilaterale Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1949: p. 94, 95, pl. 36, figs. 1-4.
Holotype — 120822
Leonard Fm. — Texas

latus Meek and Worthen

Hyatt, Alpheus, 1891: p. 330, 331.
Hypotype (s ?) (not located) — Unnumbered
Carboniferous — Kansas

sp.

Miller, A. K., and Youngquist, Walter, 1949: p. 95, pl. 39, figs. 3-5.
Figured specimen [hypotype of *Nautilus (Temnocheilus) winslowi* (Meek and Worthen), pl. 3, figs. 1-4, White, 1891] — 120825 (formerly part of 21719)
Hueco Ls. — New Mexico

Triboloceras

digonum (Meek and Worthen)

Miller, A. K., 1958: p. 79, 80, pl. 9, figs. 6-8; text-fig. 4.
Hypotype — 127991
Represo Beds — Sonora, Mexico

Trimeroceras

gilberti Kindle and Breger

Kindle, E. M., and Breger, C. L., 1904: p. 475, pl. 15, fig. 1.
Holotype and paratypes 52950
Niagara Gr., Huntington Mbr. Indiana

Tripteroceras

boreale Miller, Youngquist, and Collinson

Miller, A. K., et al., 1954: p. 78, 79, pl. 46, figs. 1-3.
Holotype 124613
Upper Ordovician Baffin Island, Canada

cariniferum Flower

Flower, R. H., 1952: p. 53, pl. 8, figs. 14-16.
Holotype 59516 (formerly 114381)
Chaumont Ls. New York

(Lambeoceras) richmondensis Foerste

Foerste, A. F., 1917: p. 44, pl. 1, figs. 3a-d; pl. 3, fig. 2.
Syntypes 78713
Richmond Gr. Indiana

scofieldi Foerste

Foerste, A. F., 1930a: p. 309, 310.
Paratype 48382
Trenton Fm. Minnesota

Tripterocerina

kirki Foerste

Foerste, A. F., 1935: p. 49, 50, pl. 18, figs. 2, 3.
Holotype 90923
Big Horn Fm., Lander Ss. Mbr. Wyoming

planodorsatum (Whitfield)

Clarke, J. M., 1897: p. 792, pl. 56, fig. 4.
Hypotypes 46529
Trenton Ls. Minnesota

Trocholites

ammonius major Ruedemann

Ruedemann, Rudolf, 1926: p. 97, pl. 18, fig. 2.
Paratype 96229
Utica Sh. New York

Trocholites--Continued

sp.

Flower, R. H., 1946: p. 112.
Described specimen 114382
Mount Auburn Fm. Ohio

Trocholitoceras

bevani Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 82, pl. 45, figs. 1-8.
Holotype and paratypes 101425
Powell Horiz. Virginia

bevani ? Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 82, pl. 53, figs. 4-7.
Figured artificial casts
and natural molds 97345, 101426
Powell Horiz. Virginia

juvenicostatum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 82, pl. 51, fig. 6; pl. 53, figs. 5, 6; pl. 56, figs. 1, 2.
Syntypes 101412
St. Armand Ls. Quebec, Canada

latum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 82, 83, pl. 42, figs. 1-3; text-fig. 22b.
Syntypes 101413
St. Armand Ls. Quebec, Canada

philipsburgense Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 83, pl. 8, figs. 2, 3; pl. 51, figs. 1-5; pl. 56, figs. 4-8.
Syntypes 101414
St. Armand Fm. Quebec, Canada

philipsburgense ? Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 83, pl. 56, fig. 9.
Figured specimen 101415
St. Armand Ls. Quebec, Canada

walcotti Hyatt

Hyatt, Alpheus, 1894: p. 480-482, pl. 6, figs. 12-20.
Holotype 25659
Cassin Ls. Vermont

Trocholitoceras--Continued

walcotti--Continued

Ulrich, E. O., et al., 1942: p. 80, 81, pl. 31, fig. 3; pl. 53, figs. 3, 4.
Hypotypes — 101410, 101411
St. Armand Ls. — Quebec, Canada

Troedssonoceras

baileyi Flower

Flower, R. H., 1939a: p. 483, 484, pl. 50, figs. 1, 2, 7.
Holotype — 114450 (4015 published, collection no.)
Trenton ? — Tennessee

turbidum (Hall and Whitfield)

Foerste, A. F., 1928a: p. 41-43.
Hypotypes — 48295
Maysville Fm., Fairmount Mbr. — Kentucky

Troostoceras

paulocurvatum Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 267, 268, pl. 54, figs. 1a-c; pl. 59, fig. 5.
Holotype — 83053
Trenton Fm., Bigby Mbr. — Tennessee

paulocurvatum abbreviatum Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 268, 269, pl. 54, figs. 2a, b.
Holotype and paratypes — 82230
Trenton Ls., Bigby Mbr. ? — Tennessee

Tumidoceras

lentum Flower

Flower, R. H., 1949: p. 78, 79, pl. 20, figs. 2, 3.
Holotype — 114383
Traverse Gr. — Michigan

magnum Flower

Flower, R. H., 1949: p. 79, 80, pl. 19, fig. 1.
Holotype — 114384
Gravel Point Fm. — Michigan

Tylonautilus

sp.

Easton, W. H., 1962: p. 101, pl. 13, fig. 35.
Figured specimen 118902
Otter Fm. Montana

Ulrichoceras

beloitense Foerste

Foerste, A. F., 1928b: p. 211, 212, pl. 47, figs. 1a-c.
Holotype 25302
Black River Fm., Beloit Mbr. Wisconsin

Undetermined

cephalopoda

Resser, C. E., and Endo, Riuji, 1937: p. 301, pl. 57, figs. 17-19.
Figured specimens 86938
Wanwan Fm. Manchoukuo, China

Uranoceras

hercules (Winchell and Marcy)

Foerste, A. F., 1925: p. 29-33, pl. 1, fig. 1; pl. 2, fig. 1.
Hypotypes 25851, 27938
Racine Dol. Illinois

? perdistensum Foerste

Foerste, A. F., 1934: p. 168, 169, pl. 30, fig. 1.
Holotype 89823
Cedarville Dol. Ohio

Utoceras

coloradense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 53, pl. 29, figs. 9, 10.
Holotype 108255
Manitou Ls. Colorado

gleneyriense Ulrich, Foerste, and Miller

Ulrich, E. O., et al., 1943: p. 53, 54, pl. 29, figs. 1, 2.
Holotype 108256
Manitou Ls. Colorado

sp.

Ulrich, E. O., et al., 1943: p. 54, pl. 29, figs. 5, 6.
Figured specimen 108257
Manitou Ls. ? (drift boulder) Colorado

Valcouroceras

elongatum Flower

Flower, R. H., 1952: p. 53, 54, pl. 10, fig. 7.

Holotype	114385
Chazy Ls.	New York

Vassaroceras

henrietta (Dwight)

Ulrich, E. O., et al., 1944: p. 33, pl. 4, figs. 3-5.

Hypotypes	109438, 109439
Rochdale Ls.	New York

Walcottoceras

monsense (Walcott)

Ulrich, E. O., et al., 1944: p. 88, 89, pl. 45, fig. 20.

Hypotype	109537
Mons Fm.	Alberta, Canada

obliquum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 89, 90, pl. 45, figs. 3, 4, 7, 8, 11-14, 17-19; pl. 46, figs. 5-11.

Paratypes	109545, 109546, 109538, 109540
Gasconade Dol.	Missouri
Paratype	109544
Upper Ozarkian	Maryland
Paratype	109543
Upper Ozarkian	Oklahoma
Paratype	109539
Upper Ozarkian	New York
Paratypes	109547, 109541
Chepultepec Dol.	Alabama
Paratype	109542
Oneota Dol.	Wisconsin

Unklesbay, A. G., 1954: p. 651, 652, pl. 71, figs. 1-4.

Hypotypes	123424-123426
Tanyard Fm., Staendebach Mbr.	Texas
Hypotype	123427
Gasconade Horiz.	Texas

? sp.

Ulrich, E. O., et al., 1944: p. 90, pl. 45, figs. 1, 2.

Figured and described specimens	109553, 109554
Signal Mountain Fm.	Oklahoma

Welleroceras

liratum Miller and Furnish

Gutschick, R. C., and Treckman, J. F., 1957: p. 1149, pl. 143, fig. 1.
Hypotype 136475
Rockford Ls. Indiana

Westonoceras

? cf. *W.* ? *breviposticum* (Miller)

Miller, A. K., et al., 1954: p. 86, 87, pl. 48, figs. 4, 5.
Figured specimen 124637
Upper Ordovician Sh. Baffin Island, Canada

? *cornulum* (Schuchert)

Miller, A. K., et al., 1954: p. 87-89, pl. 46, figs. 6, 7; pl. 47, figs. 5-8; pl. 48, figs. 1-3; pl. 49, figs. 1-2; text-fig. 11 ?
Hypotypes 124596, 124617, 124625a, 124632, 124672
Upper Ordovician Sh. Baffin Island, Canada

? *cornulum* ? (Schuchert)

Miller, A. K., et al., 1954: p. 87-89, pl. 44, figs. 17, 18; pl. 47, figs. 1-4.
Figured specimens 124625b, c, 124633
Upper Ordovician Sh. Baffin Island, Canada

deckeri Foerste

Foerste, A. F., 1935: p. 60, 61, pl. 4, fig. 1.
Holotype 94473
Viola Fm. Oklahoma

iowense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 281, 282, pl. 55, figs. 2a, b.
Holotype 83055
Stewartville Horiz. Iowa

cf. *W. iowense* Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 283, pl. 55, figs. 3a-c.
Figures specimens (hypotypes of *Cyrtoceras manitobense* Whiteaves, *in* Schuchert, 1900) 33061a-c
Red River Fm. equivalent Akpatok Island, Hudson Strait, Canada

Westonoceras--Continued

cf. *W. manitobense* (Whiteaves)

Foerste, A. F., and Teichert, Curt, 1930: p. 284, pl. 55, figs. 1a, b.
Figured specimen 83054
Stewartville Ls. Missouri

? ortoni (Meek)

Foerste, A. F., 1932, 1933: p. 117 (1933), pl. 33, figs. 3a, b (1932).
Hypotype 48349
Eden Fm., Southgate Mbr. Ohio

? rallsense Foerste and Teichert

Foerste, A. F., and Teichert, Curt, 1930: p. 285-287, pl. 47, fig. 4.
Holotype 82234
Kimmswick Ls. Missouri

thompsoni Miller, Youngquist, and Collinson

Miller, A. K., et al., 1954: p. 93, 94, pl. 48, figs. 6-8; pl. 49, fig. 9; pl. 50, figs. 5-7; pl. 51, figs. 6, 7; text-fig. 12.
Holotype and paratypes 124582, 124583, 124598, 124643, 124658
Upper Ordovician Sh. Baffin Island, Canada

washburni Miller, Youngquist, and Collinson

Miller, A. K., et al., 1954: p. 95, 96, pl. 47, figs. 9, 10; text-fig. 13.
Holotype 124645
Upper Ordovician Sh. Baffin Island, Canada

wilsonae Miller, Youngquist, and Collinson

Miller, A. K., et al., 1954: p. 96, 97, pl. 49, figs. 4-6.
Holotype 124597
Upper Ordovician Sh. Baffin Island, Canada

sp.

Foerste, A. F., and Teichert, Curt, 1930: p. 285, pl. 55, fig. 4.
Figured specimen 83056
Stewartville Dol. equivalent Minnesota

? spp.

Miller, A. K., et al., 1954: p. 97, 98, pl. 44, figs. 1-8; pl. 49, figs. 7, 8.
Figured specimens 124660, 125229a-d
Upper Ordovician Sh. Baffin Island, Canada

Wetherbyoceras

conoidale (Wetherby)

Butts, Charles, 1941: p. 127, pl. 100, figs. 10, 11.
Hypotype 97572
Martinsburg Sh., Maysville Horiz. Virginia

vallandighami (Miller)

Foerste, A. F., 1932, 1933: p. 86, 87 (1933), pl. 31, figs. 5a, b (1932).
Hypotype 48330
Maysville Fm., Fairmount Mbr. Ohio

Whitfieldoceras

baffinense Foerste

Foerste, A. F., 1932, 1933: p. 68, 69 (1933), pl. 32, figs. 11a, b, 12a, b, 13a, b (1932).
Syntypes [in part, hypotypes of *Clinoceras exiguum* (Billings) *in* Schuchert, 1900] 28199a-c
Trenton Baffin Island, Canada

Miller, A. K., et al., 1954: p. 82-84, pl. 46, figs. 8-13; text-fig. 10.
Lectotype and paratypes 28199a-c
Hypotype 124629
Upper Ordovician Sh. Baffin Island, Canada

minimum Foerste

Foerste, A. F., 1935: p. 45, 46, pl. 10, fig. 5.
Holotype and paratypes 90920
Prosser Ls. Iowa

mumiaforme (Whitfield)

Foerste, A. F., 1932, 1933: p. 60-64 (1933), pl. 32, figs. 1a-c (1932).
Neoholotype, neoparatype 25320, 48370
Black River Fm., Platteville Mbr. Wisconsin

trentonense Foerste

Foerste, A. F., 1932, 1933: p. 67, 68 (1933), pl. 32, figs. 6, 7a, b, 8 (1932).
Holotype and paratypes 59492-59494
Trenton Fm. New York
Paratype 59491
Black River Fm. New York

Wichitoceras

? chadwickense Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 86, pl. 57, fig. 5.
Holotype 101424
Cotter Fm. Missouri

Wichitoceras--Continued

compressum Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1942: p. 84, pl. 57, figs. 10, 12-18; text-fig. 17f.
Syntypes 101416a-c
Smithville Fm. Arkansas
Syntype 101417
Cotter Fm. Missouri

compressum ? Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 84, pl. 57, fig. 11.
Figured specimen 101481
Cotter Fm. Missouri

crassum Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 84, 85, pl. 57, figs. 2, 3.
Holotype 101419
Jefferson City Horiz. Oklahoma

crassum ?

Ulrich, E. O., et al., 1942: p. 84, 85, pl. 57, fig. 4.
Figured specimen 101421
Cotter Fm. Oklahoma

decipiens Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 85, 86, pl. 25, fig. 4; pl. 57, fig. 1; text-fig. 23.
Holotype and paratypes 101422
Jefferson City Horiz. Oklahoma

naylorense Ulrich, Foerste, Miller, and Furnish

Ulrich, E. O., et al., 1942: p. 86, pl. 57, figs. 6-9.
Syntypes 101423
Naylor Ledge Fm. Quebec, Canada

Wilsonoceras

bighornense Miller

Foerste, A. F., 1935: p. 79-81, pl. 16, fig. 1.
Hypotype 90947
Big Horn Fm., Lander Ss. Mbr. Wyoming

cf. *W. bighornense* Miller

Foerste, A. F., 1935: p. 81, 82, pl. 17, figs. 1-4.
Figured specimen 90948
Big Horn Fm. Idaho

Wilsonoceras--Continued

brevicameratum Foerste

Foerste, A. F., 1935: p. 82, 83, pl. 18, fig. 1.
Holotype 90949
Big Horn Fm., Lander Ss. Mbr. Wyoming

squawcreekense Miller

Miller, A. K., et al., 1954: p. 111, 112, pl. 55, fig. 1; text-fig. 15.
Hypotype 135065
Upper Ordovician Ls. Baffin Island, Canada

Winnipegoceras

humei Miller, Youngquist, and Collinson

Miller, A. K., et al., 1954: p. 101, 102, pl. 22, figs. 5, 6.
Holotype 124621
Upper Ordovician Sh. Baffin Island, Canada

laticurvatum (Whiteaves)

Foerste, A. F., 1935: p. 38, 39, pl. 4, fig. 2.
Hypotype 90916
Big Horn Fm., Lander Ss. Mbr. Wyoming

aff. *W. laticurvatum* (Whiteaves)

Miller, A. K., et al., 1954: p. 100, pl. 52, figs. 1-3.
Figured specimen 124620
Upper Ordovician Sh. Baffin Island, Canada

royi Miller, Youngquist, and Collinson

Miller, A. K., et al., 1954: p. 101, pl. 32, figs. 1, 2; pl. 52, figs. 4, 5.
Holotype and paratype 124674, 124681
Upper Ordovician Baffin Island, Canada

sp.

Miller, A. K., et al., 1954: p. 102, pl. 21, figs. 5, 6.
Figured specimen 124662
Upper Ordovician Sh. Baffin Island, Canada

? sp.

Miller, A. K., et al., 1954: p. 102, 103, pl. 51, figs. 3, 4.
Figured specimen 124657
Upper Ordovician Sh. Baffin Island, Canada

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Woosteroceras

cherokeense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 30, pl. 46, fig. 12.
Holotype 109433
Ellenburger Ls., Gasconade Horiz. Texas

trempealeauense Ulrich, Foerste, Miller, and Unklesbay

Ulrich, E. O., et al., 1944: p. 30, pl. 46, figs. 13-15.
Holotype, paratype, and illustrated artificial casts 109432
Oneota Dol. Wisconsin

Worthenoceras

byronense Foerste

Foerste, A. F., 1930b: p. 77.
Syntypes 81434, 81434a
Port Byron Dol. Illinois

curtum Foerste

Foerste, A. F., 1930b: p. 77, 78, pl. 13, figs. 1a, b.
Holotype 81436
Port Byron Dol. Illinois

curtum ? Foerste

Foerste, A. F., 1930b: p. 78.
Described specimen 81436a
Port Byron Dol. Illinois

elongatum Foerste

Foerste, A. F., 1930b: p. 76, pl. 13, figs. 7a, b; 8a, b.
Paratypes 81433, 81433a
Port Byron Dol. Illinois

exiguum Foerste

Foerste, A. F., 1930b: p. 77, pl. 13, figs. 4a, b.
Holotype 81435
Port Byron Dol. Illinois

? *subfusiforme* Foerste

Foerste, A. F., 1934: p. 128, 129, pl. 30, figs. 4a-c; pl. 37, fig. 2.
Holotype and paratypes 89818
Cedarville Dol. Ohio

Zitteloceras

clarkeanum Foerste

McKelvey, V. E., 1939: p. 74-76, text-figs. 1-4, 6.
Hypotype (mold) 137069
Lower Platteville Beds Wisconsin

Subclass Ammonoidea

Adelphoceras

meslerianum Girty

Girty, G. H., 1909a: p. 66, 67, pl. 12, figs. 1-3c.
Holotype and paratypes *m* 119594, 119595
Caney Sh. Oklahoma

meslerianum ? Girty

Girty, G. H., 1911a: p. 104, 105, pl. 14, figs. 5, 5a, b. (fig. 5, hypotype of *Girtyoceras limatum* (Miller and Faber) in Gordon, 1964b, p. 231)
Figured specimen 119613
Moorefield Sh. Arkansas

Adrianites

adamsi Miller and Furnish

Miller, A. K., 1945: p. 17, pl. 7, figs. 9, 10.
Hypotype 111629
Word Fm. Texas

newelli Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 117, pl. 25, figs. 1-3.
Syntype 144459
Leonard Fm. ? Texas

sp.

Miller, A. K., 1945: p. 17, 18, pl. 8, figs. 2, 3.
Figured specimen 111639
Leonard Fm. Texas

Agathiceras

applini Plummer and Scott

Miller, A. K., and Youngquist, Walter, 1947: p. 11, 12, pl. 2, figs. 5-11; pl. 3, fig. 10.
Hypotypes 146290
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

ciscoense Smith

Smith, J. P., 1903: p. 131, 132, pl. 21, figs. 17-19.
Holotype 27199
Cisco Fm. Texas

girtyi Böse

Miller, A. K., 1945: p. 16, 17, pl. 8, figs. 4-6.
Hypotypes 111634, 111635
Word Fm. Texas

Agathiceras --Continued

texanum Girty

Girty, G. H., 1908: p. 501, 502, pl. 25, figs. 8, 8a.
Holotype 118629
Basal Black Ls. Texas

Agoniatites

expansus (Vanuxem)

Kindle, E. M., 1912: p. 107, pl. 9, fig. 6.
Hypotype 62123
Onondaga Sh. Maryland

nevadensis Miller

Miller, A. K., 1938: p. 46, 47, pl. 6, fig. 1; text-figs. 4, 5.
Holotype 96544
Nevada Ls. Nevada

nevadensis ? Miller

Miller, A. K., 1938: p. 46, 47.
Described specimen 96553
Newala Ls. Nevada

? sp.

Miller, A. K., 1938: p. 54, pl. 35, fig. 4.
Figured specimen (not located)
Romney Fm., Onondaga Mbr. Maryland

Ammonellipsites

(Stenocyclus) ballardensis Gordon

Gordon, Mackenzie, Jr., 1964b: p. 174, 175, pl. 17, figs. 3-6.
Holotype 119479
Boone Fm., Grand Falls Chert Mbr. Kansas

(Fascipericyclus) polaris Gordon

Gordon, Mackenzie, Jr., 1957: p. 33, 34, pl. 4, figs. 1-3; text-figs. 10a, b.
Holotype and paratypes 118952-118954
Lisburne Gr. Alaska

(Fascipericyclus) aff. *A. (F.) polaris* Gordon

Gordon, Mackenzie, Jr., 1957: p. 35, text-fig. 10c.
Figured specimen 118955
Lisburne Gr. ? Alaska

Ammonellipsites--Continued

(Pericyclus) sp.

Gordon, Mackenzie, Jr., 1964b: p. 174, pl. 17, figs. 1, 2.
Figured specimen 119478
Walls Ferry Ls. Arkansas

Anthracoceras

? *colubrellus* Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940a: p. 376, pl. 49, figs. 14-20; text-fig. 17a.
Syntypes 98931, 98932
White Pine Fm. Nevada

? *humphreyi* Miller, Downs, and Youngquist

Miller, A. K., et al., 1949: p. 610, 611, pl. 99, figs. 5, 6; text-fig. 3b.
Holotype and paratype (not located or cataloged)
White Pine Sh. Nevada

paucilobum (Phillips)

Gordon, Mackenzie, Jr., 1964b: p. 243, 244, pl. 26, figs. 1-3, 7; text-fig. 70.
Hypotypes 119643-119645, 120664
Imo Fm. Arkansas

Aptychus

solidum Girty

Girty, G. H., 1915b: p. 132, 133, pl. 8, fig. 1.
Holotype (not located or cataloged)
Batesville Ss. Arkansas

Artinskia

adkinsi Plummer and Scott

Miller, A. K., and Youngquist, Walter, 1947: p. 7, 8, pl. 3, figs. 6, 7.
Hypotypes 146291
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

lilianae Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1947: p. 8-10, pl. 3, figs. 8, 9, text-fig. 1b.
Holotype 146292
Pueblo Fm., Camp Creek Sh. Mbr. Texas

Aulatornoceras

bicostatum (Hall)

House, M. R., 1962: p. 275, pl. 46, fig. 10; text-fig. 11d.
Hypotypes 137662, 137663
Gowanda Sh. New York

Axinolobus

modulus Gordon

Gordon, Mackenzie, Jr., 1960: p. 149, 150, text-figs. 1-l, m.
Holotype 119684
Morrow Series Oklahoma

cf. *A. modulus* Gordon

Gordon, Mackenzie, Jr., 1964b: p. 276, pl. 30, figs. 5, 6, 17, text-fig. 89b.
Figured specimen 119681
Bloyd Sh., Kessler Ls. Mbr. Arkansas
Figured specimen 120195
Witts Springs Fm.; reworked pebble in Atoka Fm. Arkansas

Beyrichoceras

hornerae Miller

Gordon, Mackenzie, Jr., 1964b: p. 183, 184, pl. 17, figs. 34, 35.
Illustrated artificial mold of holotype (YPM 17112) 146320
Boone Fm. (float boulder) Missouri

micronotum (Phillips)

Gordon, Mackenzie, Jr., 1957: p. 40, 41, pl. 4, figs. 33-38; text-figs. 15a, c.
Hypotypes 118964-118965
Alapah Ls., black chert and sh. mbr. Alaska

micronotum ? (Phillips)

Gordon, Mackenzie, Jr., 1957: p. 40, 41, text-fig. 15b.
Figured specimen 118966
Alapah Ls., black chert and sh. mbr. Alaska

sp.

Gordon, Mackenzie, Jr., 1957: p. 42, pl. 4, figs. 30-32; text-figs. 16a, b.
Figured specimen 118967
Alapah Ls. Alaska

Bisatoceras

cf. *B. greenei* Miller and Owen

Gordon, Mackenzie, Jr., 1964a: p. A22, A23, pl. 4, figs. 10-13; text-fig. 11.
Figured specimen 120625
Tihvipah Ls. California

paynei Gordon

Gordon, Mackenzie, Jr., 1964b: p. 249, 250, pl. 28, figs. 40-47; text-fig. 74.
Holotype and paratype 119674, 119675
Hale Fm., Prairie Grove Mbr. Arkansas

(Pseudobisatoceras) secundum Miller and Moore

Gordon, Mackenzie, Jr., 1964b: p. 250, 251, pl. 26, figs. 17-19; text-fig. 75.
Hypotypes 119652
Witts Springs Fm. Arkansas

Bollandites

bowsheri Gordon

Gordon, Mackenzie, Jr., 1957: p. 37, 38, pl. 4, figs. 28, 29; text-figs. 12a, b.
Holotype and paratypes 118958, 118959
Alapah Ls. Alaska

bowsheri ? Gordon

Gordon, Mackenzie, Jr., 1957: p. 37, 38, pl. 4, fig. 27.
Figured specimen 118960
Alapah Ls. Alaska

kiligwae Gordon

Gordon, Mackenzie, Jr., 1957: p. 38, pl. 4, figs. 20-26; text-figs. 13a, b.
Holotype and paratypes 118961, 118962
Alapah Ls. Alaska

cf. *B. sulcatum* Bisat

Gordon, Mackenzie, Jr., 1957: p. 38, 39, pl. 4, figs. 17-19; text-figs. 14a, b.
Figured specimens 118963a-d
Alapah Ls. Alaska

Bransonoceras

bakeri Miller and Parizek

Miller, A. K., and Parizek, E. J., 1948: p. 355, 356, pl. 58, figs. 1-3; text-fig. 2.
Holotype 112961
Hueco Fm. New Mexico

Cheiloceras

(Cheiloceras) amblylobum (Sandberger and Sandberger)

House, M. R., 1962: p. 274-276, pl. 46, figs. 1-4; text-figs. 11a, b.
Hypotypes 137665, 137666
Gowanda Sh. New York

Cibolites

uddeni Plummer and Scott

Miller, A. K., and Furnish, W. M., 1940c: p. 72, 73, pl. 25, figs. 7, 8.
Hypotypes 144428a, 144433
Delaware Mountain Fm., Hegler Ls. Mbr. Texas

Miller, A. K., and Unklesbay, A. G., 1943: p. 9, 11; text-fig. 4h.
Hypotype 144428b
Hegler Ls. Texas

Cornaptychi of *Pseudogastrioceras* sp.

Closs, Darcy, Gordon, Mackenzie, Jr., and Yochelson, E. L., 1964: p. 899-902, pl. 146, figs. 1-5a.
Figured and described specimens 143230, 143231, 143233, 143234, 143801, 143802
Phosphoria Fm., Meade Peak Phosphatic Sh. Mbr. Utah

Cravenoceras

fayettevillae Gordon

Gordon, Mackenzie, Jr., 1964b: p. 207-210, pl. 21, figs. 16, 21-26; text-figs. 52e, f, 54d, 56.
Holotype and paratypes 119518-119520, 120657
Fayetteville Sh. Arkansas

friscoense (Miller and Owen)

Gordon, Mackenzie, Jr., 1964b: p. 206, text-fig. 54e.
Hypotype 119521
Springer Fm. Oklahoma

hesperium Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940a: p. 374, 375, pl. 49, figs. 1-8; text-figs. 15b, 16b.
Syntypes 98935
White Pine Fm. Nevada

Youngquist, Walter, 1949: p. 613, 614, pl. 100, figs. 1-7.
Hypotypes 119082-119084
White Pine Sh. Nevada

Cravenoceras--Continued

hesperium--Continued

Easton, W. H., 1962: p. 102, pl. 13, figs. 33, 34.
Hypotype 118899
Heath Fm. Montana

Gordon, Mackenzie, Jr., 1964a: p. A11-A14, pl. 3, figs. 3-5.
Hypotype 120617
Perdido Fm. California

hesperium ? Miller and Furnish

Miller, A. K., and Youngquist, Walter, 1948: p. 656, pl. 95, figs. 7-9, 13-15,
Figured specimens 112975
Barnett Fm. Texas

cf. *C. hesperium* Miller and Furnish

Easton, W. H., 1942: p. 86, pl. 12, figs. 2-4.
Figured specimen (hypotype of *Paracravenoceras ozarkense* Gordon, 1960, p. 143) 119545
Pitkin Ls. Arkansas

incisum (Hyatt)

Gordon, Mackenzie, Jr., 1960: p. 140, 141, text-figs. 1g, k.
Hypotype 119522
Barnett Fm. Texas

involutum Gordon

Gordon, Mackenzie, Jr., 1964b: p. 210, pl. 21, figs. 17-20; text-figs. 53f, g, 55e.
Holotype and paratypes 119523-119525, 120658
Pitkin Ls. Arkansas

inyoense Gordon

Gordon, Mackenzie, Jr., 1964a: p. A14, A15.
Paratypes 120618, 143889
Perdido Fm. California

lineolatum Gordon

Gordon, Mackenzie, Jr., 1964b: p. 211, pl. 21, figs. 12-15; text-figs. 52i, j, 54a.
Holotype and paratypes 119526, 119527
Fayetteville Sh. Arkansas

merriami Youngquist

Gordon, Mackenzie, Jr., 1964a: p. A15-A16, pl. 2, figs. 11, 12; text-fig. 4c.
Hypotype 120619
Rest Spring Sh. (base) or Perdido Fm. (top) California

Cravenoceras--Continued

sp. A

Gordon, Mackenzie, Jr., 1964b: p. 215, pl. 21, figs. 38, 39; text-fig. 55f.
Figured specimen 119537
Pitkin Ls. Arkansas

sp. B

Gordon, Mackenzie, Jr., 1964b: p. 215, pl. 21, figs. 8-11; text-fig. 55i.
Figured specimen 119538
Pitkin Ls. Arkansas

sp. C

Gordon, Mackenzie, Jr., 1964b: p. 216.
Described specimens 120659
Fayetteville Sh. Arkansas

sp.

Gordon, Mackenzie, 1957: p. 49, 50.
Described specimens 146293
Calico Bluff Fm. Alaska

Easton, W. H., 1962: p. 102, pl. 13, fig. 25.
Figured cast 118881 (mold, Univ. of Illinois X-1451)
Health Fm. Montana

Cravenoceratoides

cf. *C. nititoides* (Bisat)

Gordon, Mackenzie, Jr., 1964a: p. A16, pl. 4, figs. 18-23.
Figured specimens 120620, 120621
Chainman Sh. California

Daraelites

texanus Böse

Smith, J. P., 1929: p. 66-68, fig. B, nos. 17-26.
Hypotypes 144518-144520, 144525
Wolfcamp Fm. Texas

Delepinoceras

californicum Gordon

Gordon, Mackenzie, Jr., 1964a: p. A19, A20, pl. 2, figs. 18-22; text-figs. 9a-c.
Holotype and paratype 120622, 120623
Perdido Fm. California

Cravenoceras--Continued

miseri Gordon

Gordon, Mackenzie, Jr., 1964b: p. 211, 212, pl. 21, figs. 1-7; text-figs. 53h, i, 55g, j.

Holotype and paratypes	119258-119531
Imo Fm.	Arkansas

nevadense Miller and Furnish

Miller, A. K., and Youngquist, Walter, 1948: p. 657, pl. 95; pl. 96; pl. 100, figs. 4-6, 10-15, 18, 19.

Hypotypes	112979, 112981, 122977a-c
Barnett Fm.	Texas

? *nevadense* Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940a: p. 375, 376, pl. 49, figs. 9-13; text-figs. 15a, 16a.

Syntypes	98933
White Pine Fm.	Nevada

richardsonianum (Girty)

Gordon, Mackenzie, Jr., 1964b: p. 212, 213, pl. 22, figs. 28-30; text-figs. 53a-d, 55b.

Hypotype	119532
Pitkin Ls.	Arkansas
Hypotype	119533
Caney Sh.	Oklahoma

richardsonianum ? (Girty)

Gordon, Mackenzie, Jr., 1964b: p. 212, 213, pl. 22, figs. 31-34; text-fig. 55k.

Figured specimen	119534
Pitkin Ls.	Arkansas

scotti Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1948: p. 657, 658, pl. 96, figs. 7, 8; pl. 97, figs. 22-24.

Holotype and paratype	112983, 112984
Barnett Fm.	Texas

Gordon, Mackenzie, Jr., 1964b: p. 213-215, pl. 21, figs. 31-37; text-figs. 52g, h, 54h.

Hypotypes	119535
Fayetteville Sh.	Arkansas
Hypotype	119536
Caney Sh. erratic in Johns Valley Sh.	Arkansas
Hypotype (paratype of *Gastrioceras richardsonianum* Girty, 1909b, pl. 11, fig. 5)	119588
Caney Sh.	Oklahoma

Dimorphoceras

algens Gordon

Gordon, Mackenzie, Jr., 1957: p. 55, 56, pl. 3, figs. 10-15; text-figs. 26a, b.
Holotype and paratypes 118985-118987
Alapah Ls. Alaska

humphreyi Youngquist

Youngquist, Walter, 1949: p. 614, 615, pl. 100, figs. 8-11; text-fig. 1a.
Holotype 119085
White Pine Sh. Nevada

lenticulare Girty

Girty, G. H., 1911b: p. 152.
Syntypes 121094
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 259, 260, pl. 35, figs. 1, 1b.
Lectotype and paratype 121094
Wewoka Fm. Oklahoma

oklahomae Girty

Girty, G. H., 1911b: p. 152, 153.
Holotype 121095
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 260, 261, pl. 35, figs. 2-2b.
Holotype 121095
Wewoka Fm. Oklahoma

Entogonites

borealis Gordon

Gordon, Mackenzie, Jr., 1957: p. 53, 54, pl. 6, figs. 34-30; text-figs. 24a, b.
Holotype and paratypes 118981-118984
Alapah Ls. Alaska

Eoasianites

merriami Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940b: p. 542, 543, pl. 65, figs. 1, 2; text-fig. 7b.
Holotype 114550
Upper Pennsylvanian or Lower Permian Oregon

Eothalassoceras

aurorale Gordon

Gordon, Mackenzie, Jr., 1957: p. 54, 55, pl. 3, figs. 16-19; text-figs. 25a, b.
Holotype 118988
Alapah Ls.

Eowellerites Gordon

discoidalis Gordon

Gordon, Mackenzie, Jr., 1964b: p. 273, 274, pl. 30, figs. 11, 14-16, 18; text-figs. 86b, 87b.
Holotype 119682
Atoka Fm. Arkansas

cf. *E. moorei* (Plummer and Scott)

Gordon, Mackenzie, Jr., 1964b: p. 274, 275, text-fig. 87c.
Figured specimen 119683
Atoka Fm. Arkansas

Epicanites

cf. *E. loeblichi* Miller and Furnish

Youngquist, Walter, 1949: p. 615, 616, pl. 100, figs. 12-15.
Figured specimen 119086
White Pine Sh. Nevada

Epiglyphioceras

meneghinii Gemmellard

Miller, A. K., and Furnish, W. M., 1957a: p. 711, pl. 83, figs. 5, 6.
Hypotype 146294
Sosio Beds Sicily

Eumorphoceras

bisulcatum Girty

Girty, G. H., 1909a: p. 68-70, pl. 11, figs. 15-19a.
Holotype and paratypes 119596, 119597, 118707
Caney Sh. Oklahoma

Girty, G. H., 1911a: p. 103, 104, pl. 14, fig. 4.
Illustrated cast and described hypotype (hypotype of *Girtyoceras limatum* (Miller and Faber) in Gordon, 1964) 119612
Moorefield Sh. Arkansas

Eumorphoceras--Continued

bisulcatum--Continued

Miller, A. K., and Youngquist, Walter, 1948: p. 661-665, pl. 100, figs. 13-17; text-fig. 2b.

Hypotypes	112989, 112990
Barnett Fm.	Texas

Gordon, Mackenzie, Jr., 1964b: p. 235-238, pl. 25, figs. 9, 10, 28-30; text-figs. 63g, h, k, l, 65c, 66c.

Hypotype	119634
Caney Sh.	Oklahoma
Hypotype	119635
Pitkin Ls.	Arkansas
Hypotype	119636
Imo Fm.	Arkansas

milleri Gordon

Gordon, Mackenzie, Jr., 1964b: p. 238, 239, pl. 25, figs. 1-8, 11-13, 23, 32, text-figs 63i, j, 67a.

Holotype and paratypes	119637-119639, 120662, 120663
Fayetteville Sh.	Arkansas

plummeri Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1948: p. 665-667, pl. 100, figs. 1-3, 20, 21; text-fig. 2a.

Holotype and paratype	112992, 112993
Barnett Fm.	Texas

(Edmooroceras) plummeri Miller and Youngquist

Gordon, Mackenzie, Jr., 1964b: p. 239-241, pl. 25, figs. 14, 15, 25 19-22; text-figs. 63m, n.

Hypotypes (hypotype of *Girtyoceras meslerianum* Girty *in* Miller and Youngquist, 1948, pl. 94, figs. 10, 11)	119640, 112994,
Barnett Fm.	Texas
Hypotype	119641, 119642
Fayetteville Sh.	Arkansas

Falciclymenia

bowsheri Miller and Collinson

Miller, A. K., and Collinson, Charles, 1951: p. 600-603, text-figs. 1a-c.

Holotype	116343
Percha Sh.	New Mexico

Fayettevillea

planorbis Gordon

Gordon, Mackenzie, Jr., 1960: p. 147, pl. 28, figs. 9-11; text-figs. 2a-c.

Holotype and paratypes	119552, 119553-119555,
Fayetteville Sh.	Arkansas

Gastrioceras

(Lissogastrioceras) adaense Miller and Owen

Gordon, Mackenzie, Jr., 1964b: p. 257-259, pl. 27, figs. 24-26, 34; text-figs. 79b, c, 80d.

Hypotype	119665
Whitts Springs Fm.	Arkansas
Hypotype	119666
Union Valley Ss.	Oklahoma
Cast of hypotype (cast of G. *carbonarium* (von Buch) *in* Smith, 1903: p. 84, pl. 11, figs. 1-4; LSSU 5605)	146325
Johns Valley Sh.	Arkansas

angulatum Girty

Girty, G. H., 1911b: p. 151, 152.

Syntypes	121090-121092
Wewoka Fm.	Oklahoma

Girty, G. H., 1915a: p. 256-258, pl. 34, figs. 1-2c, not figs. 3-3d USNM 121092

Lectotype and paratypes	121090, 121091
Wewoka Fm.	Oklahoma

branneri Smith

Smith, J. P., 1896: p. 257, 258, pl. 23, figs. 1-6.

Holotype	26439
Lower "Coal Measures," "Millstone Grit"	Arkansas

(Branneroceras) branneri Smith

Gordon, Mackenzie, Jr., 1964b: p. 253-255, pl. 27, figs. 21-23, 76a, b.

Hypotype	119658
Witts Springs Fm.	Arkansas
Hypotypes	119659
Bloyd Sh., Brentwood Ls. Mbr.	Arkansas

(Branneroceras) aff. *G. B. branneri* Smith

Gordon, Mackenzie, Jr., 1964b: p. 255.

Described specimens	120665
Johns Valley Sh.	Arkansas

Gastrioceras--Continued

branneri branneri Smith

Miller, A. K., and Owen, J. B., 1944: p. 422, 423, pl. 65, figs. 1, 2.
Hypotype 111555
Morrow Gr. Oklahoma

Miller, A. K., and Downs, R. H., 1948: p. 680, pl. 103, figs. 10, 11.
Figured artificial casts and described hypotypes 119624, 119625
Hale Fm. Arkansas

caneyanum Girty

Girty, G. H., 1909a: p. 57-59, pl. 12, figs. 4-10.
Syntypes (lectotype and paratypes of *Neoglyphioceras caneyanum*, *in* Gordon, 1964b) 119589, 119590
Caney Sh. Oklahoma

Girty, G. H., 1911a: p. 102, 103, pl. 14, fig. 6.
Hypotype 119611
Moorefield Sh. Arkansas

Girty, G. H., 1915b: p. 131, pl. 5, figs. 6, 6a.
Hypotypes 119607
Batesville Ss. Arkansas

compressum Hyatt

Hyatt, Alpheus, 1891: p. 355, 356, text-figs. 57-59.
Syntypes (lectotype 23872 and paratypes 120189 selected by Gordon, 1964, p. 264) 23872
Carboniferous Texas

excelsum (Meek)

Girty, G. H., 1915a: p. 258, 259, pl. 34, fig. 4.
Hypotype 121093
Wewoka Fm. Oklahoma

(Lissogastrioceras) fittsi Miller and Owen

Gordon, Mackenzie, Jr., 1964b: p. 257, 259, 260, pl. 27, figs. 31-33, 35-37; text-figs. 79d, 80a, e.
Hypotype and artificial (cast of hypotype of *G. listeri* (Martin) *in* Smith, 1903, pl. 13, fig. 12, LSJU 5594) 119667, 146326
Johns Valley Sh. Arkansas
Hypotype 119668
Witts Springs Fm. Arkansas
Hypotype 119669, 119670
Union Valley Sh. Oklahoma

Gastrioceras--Continued

globulosum (Meek and Worthen)

Smith, J. P., 1903: p. 89, 90, pl. 21, figs. 7-9.
Hypotype 35090
Cisco Fm. Texas

(Branneroceras) henbesti Gordon

Gordon, Mackenzie, Jr., 1964b: p. 255, 256, pl. 27, figs. 1-8; text-figs. 77, 79a.
Holotype and paratypes 119660-119662
Hale Fm., Prairie Grove Mbr. Arkansas

hyattianum Girty

Girty, G. H., 1911b: p. 150, 151.
Syntypes 121085-121089
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 254-256, pl. 32, figs. 6, 6a; pl. 33, figs. 1-4d.
Syntypes 121085-121089
Wewoka Fm. Oklahoma

richardsonianum Girty

Girty, G. H., 1909a: p. 54-57, pl. 11, figs. 1-11.
Holotype and paratypes (119588 assigned to *Cravenoceras scotti* Miller and Furnish by Gordon, 1964, p. 213) 119585-119588
Caney Sh. Oklahoma

? *serratum* Girty

Girty, G. H., 1908: p. 500, pl. 23, figs. 9-9d.
Syntypes (lectotype of *Pseudogastrioceras serratum* Miller and Furnish, 1940) 118627
Delaware Mountain Fm. Texas

simulator Girty

Girty, G. H., 1910: p. 52-54, pl. 7, figs. 11-13.
Syntypes 145226-145228
Park City Fm. Wyoming

(Branneroceras) textum Gordon

Gordon, Mackenzie, Jr., 1964b: p. 256, 257, pl. 27, figs. 9-15; text-fig. 78.
Holotype and paratypes 119663, 119664
Hale Fm., Prairie Grove Mbr. Arkansas

267-454 O - 68 - 11

Gastrioceras--Continued

venatum Girty

Girty, G. H., 1911b: p. 149, 150.
Syntypes 121082-121084
Wewoka Fm. Oklahoma

Girty, G. H., 1915a: p. 254, pl. 32, figs. 1-3b.
Syntypes 121082-121084
Wewoka Fm. Oklahoma

welleri Smith

Girty, G. H., 1915c: p. 364.
Hypotypes 121450
Henrietta Fm., Fort Scott Mbr. ? Missouri

sp.

Girty, G. H., 1908: p. 500, 501, pl. 29, figs. 22, 22a.
Figured specimen (hypotype of *Pseudogastrioceras altudense* (Böse), *in* Miller and Furnish, 1940c) 118628
Delaware Mountain Fm. Texas

? sp.

Girty, G. H., 1910: p. 54, pl. 7, fig. 14.
Figured specimen 145229
Park City Fm. Wyoming

Gattendorfia

alteri Gutschick and Treckman

Gutschick, R. C., and Treckman, J. F., 1957: p. 1151-1153, pl. 144, figs. 1-3; text-figs. 3a-c.
Holotype 136323
Rockford Ls. Indiana

sp.

Gordon, Mackenzie, Jr., 1964b: p. 170, pl. 16, figs. 8, 9; text-fig. 34.
Figured specimens 119649, 119470
Walls Ferry Ls. Arkansas

? sp.

Gordon, Mackenzie, Jr., 1964b: p. 170, 171, pl. 16, figs. 15-17; text-fig. 35.
Figured specimens 119468
Walls Ferry Ls. Arkansas

Girtyoceras

arcticum Gordon

Gordon, Mackenzie, Jr., 1957: p. 50, 51, pl. 6, figs. 19-26; text-figs. 22a-c.

Holotype and paratypes	118976-118978
Alapah Ls.	Alaska

endicottense Gordon

Gordon, Mackenzie, Jr., 1957: p. 51, 52, pl. 6, figs. 28-33; text-fig. 23.

Holotypes and paratypes	118979, 118980
Alapah Ls.	Alaska

jasperense Gordon

Gordon, Mackenzie, Jr., 1964b: p. 229-231, pl. 24, figs. 1-9; text-figs. 63 e, f; 64f, g.

Holotype and paratypes	119626, 119627
Fayetteville Sh.	Arkansas

cf. *G. jasperense* Gordon

Gordon, Mackenzie, Jr., 1964b: p. 229-231.

Described specimens	146375
Fayetteville Sh.	Arkansas

limatum (Miller and Faber)

Gordon, Mackenzie, Jr., 1964b: p. 231, 232, pl. 24, figs. 40-46, 51-54, 64e; text-fig. 63c, d.

Hypotype (hypotype of *Eumorphoceras bisulcatum* Girty, 1911a, p. 14, fig. 4.	119612
Moorefield Sh.	Arkansas
Hypotype	119631
Caney Sh.	Oklahoma
Hypotypes (119613 figured specimen of *Adelphoceras meslerianum?* Girty, 1911a, pl. 14, fig. 5)	119613, 119630, 120660
Ruddell Sh.	Arkansas

meslerianum (Girty)

Miller, A. K., and Furnish, W. M., 1940a: p. 367, 368, pl. 48, figs. 1-3; text-figs. 8a, 11b.

Hypotypes	98936 (formerly 60600)
Floyd Sh.	Georgia

Miller, A. K., and Youngquist, Walter, 1948: p. 667-669, pl. 94, figs. 10, 11.

Hypotype (hypotype of *Eumorphoceras (Edmooroceras) plummeri in* Miller and Youngquist. Gordon, 1964b, p. 239-241, pl. 25, figs. 31, 36, text-fig. 65c)	112994
Barnett Fm.	Texas

Girtyoceras--Continued

meslerianum--Continued

Gordon, Mackenzie, Jr., 1964b: p. 233, 234, pl. 24, figs. 10-13, 29.
Hypotypes 119628, 119629
Caney Sh. Oklahoma

meslerianum ? (Girty)

Miller, A. K., and Youngquist, Walter, 1948: p. 667-669.
Mentioned specimen 112995
Barnett Fm. Texas

aff. *G. meslerianum* (Girty)

Miller, A. K., et al., 1949: p. 608-610, pl. 99, figs. 9, 10; text-fig. 3c.
Figured specimen (not located)
White Pine Sh. Nevada

ornatissimum Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1948: p. 669, pl. 100, figs. 5-7, text-fig. 3.
Holotype 112997
Barnett Fm. Texas

cf. *G. ornatissimum* Miller and Youngquist

Gordon, Mackenzie, Jr., 1964b: p. 232, 233, pl. 24, figs. 37-39.
Figured and described specimens 119632
Fayetteville Sh. Arkansas

? spp.

Gordon, Mackenzie, Jr., 1957: p. 52.
Described specimens 146295, 146296
Calico Bluff Fm. Alaska

Glaphyrites

depressus Gordon

Gordon, Mackenzie, Jr., 1964b: p. 221, 222, pl. 23, figs. 1, 2, 6-9; text-figs. 59e, f, 60b.
Holotype and paratypes 119547, 119548
Bloyd Sh., Brentwood Ls. Mbr. Arkansas

morrowensis (Miller and Moore)

Gordon, Mackenzie, Jr., 1964b: p. 223, 224, pl. 23, figs. 13-15; text-figs. 59g, h.
Hypotypes 119549, 119550
Bloyd Sh., Brentwood Ls. Mbr. Arkansas

Glaphyrites --Continued

oblatus -- Miller and Moore

Gordon, Mackenzie, Jr., 1964b: p. 224, 225, pl. 23, figs. 10-12; text-figs. 59a, d.
Hypotype 119551
Witts Springs Fm. Arkansas
Hypotypes 120666
Johns Valley Sh. Arkansas

sp.

Gordon, Mackenzie, Jr., 1962: p. 96.
Described specimen 146322
Red Eagle Ls., Bennett Sh. Mbr. Kansas
Described specimen 146321
Root Sh., Jim Creek Ls. Mbr. Kansas

? sp.

Gordon, Mackenzie, Jr., 1962: p. 96.
Described specimen 146323
Foraker Ls., Hughes Creek Sh. Mbr. Kansas

Goniatites

baylorensis White

White, C. A., 1891: p. 19, pl. 2, figs. 1-3.
Holotype 21706
Permian Texas

choctawensis Shumard

Girty, G. H., 1909a: p. 59-62, pl. 13, figs. 1-11b.
Hypotypes 119591, 119592
Caney Sh. Oklahoma

Girty, G. H., 1911a: p. 97-99, pl. 15, figs. 7, 7a.
Hypotypes 119610
Moorefield Sh. Arkansas

Girty, G. H., 1915b: p. 129, 130, pl. 5, figs. 4, 5.
Hypotypes 119606
Batesville Ss. Arkansas

Miller, A. K., and Youngquist, Walter, 1948: p. 658-660, pl. 95, figs. 16, 17, pl. 96, figs. 1-3, 9-12; pl. 97, figs. 1-14, 21; pl. 98, figs. 1-3, 9-13; pl. 99, figs. 1-15.
Hypotypes 112999b-j, 113000b-d, 113003, 113006a-h
Barnett Fm. Texas

Miller, A. K., et al., 1949: p. 608-610, pl. 99, figs. 7, 8; text-fig. 3a.
Hypotype (not located)
White Pine Sh. Nevada

Goniatites --Continued

choctawensis --Continued

Gordon, Mackenzie, Jr., 1962: p. 355-357, text-fig. 1b.
Hypotype 119502
Caney Sh. Oklahoma

Gordon, Mackenzie, Jr., 1964b: p. 189-192, pl. 19, figs. 13-20, 29; text-figs. 44g-h.
Hypotype 119504
Caney Sh. Oklahoma
Hypotypes 119503, 119505
Ruddell Sh. Arkansas

choctawensis barnettensis Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1948: p. 658, 659, pl. 99, figs. 16-19.
Holotype 112999a
Barnett Fm. Texas

choctawensis cumminsi (Hyatt)

Miller, A. K., and Youngquist, Walter, 1948: p. 659, pl. 98, figs. 6-8.
Hypotype 113000a
Barnett Fm. Texas

crenistria Phillips

Gordon, Mackenzie, Jr., 1957: p. 42-45, pl. 5, figs. 1-16; text-figs. 17a-d.
Hypotypes 118968a-d, 118969a, b, 118970a-e
Alapah Ls. Alaska

aff. *G. crenistria* Phillips

Gordon, Mackenzie, Jr., 1964b: p. 187-189, pl. 18, figs. 1-6; text-figs. 44a, b, 46a-c.
Figured specimens 119501
Moorefield Fm. Arkansas

desideratus Walcott

Walcott, C. D., 1884: p. 203, 204, pl. 17, fig. 10.
Holotype 13983
Devonian Ls. Nevada

globulosus excelsus Meek

Meek, F. B., 1876: p. 445:
Holotype 33275
Carboniferous Kansas

Goniatites --Continued

goniolobus Meek

Meek, F. B., 1877: p. 98, 99, pl. 9, figs. 5, 5a, b.

Holotype	156437
Carboniferous	New Mexico

granosus Portlock

Gordon, Mackenzie, Jr., 1964b: p. 192-194, pl. 18, figs. 13-16; text-figs. 44i, 49.

Hypotype	119506, 119508
Ruddell Sh.	Arkansas
Hypotypes	119507, 119509
Caney Sh.	Arkansas

cf. *G. granosus* Portlock

Gordon, Mackenzie, Jr., 1957: p. 46, 47, pl. 6, figs. 8, 9; text-fig. 19.

Figured specimen	118972
Calico Bluff Fm.	Alaska

kingi Hall and Whitfield

Hall, James, and Whitfield, R. P., 1877: p. 279, 280, pl. 6, figs. 9-14.

Syntypes	14176
"Coal Measures," Black Sh.	Nevada

lutheri Clarke

Clarke, J. M., 1885: p. 50, pl. 2, fig. 8.

Holotype	14993
Naples Beds	New York

multiliratus Gordon

Gordon, Mackenzie, Jr., 1962: p. 355-357, text-fig. 1a.

Holotype and paratypes	119499, 119500
Caney Sh.	Oklahoma

Gordon, Mackenzie, Jr., 1964b: p. 186, 187, pl. 18, fig. 8; text-figs. 44c, d.

Hypotype	119498
Moorefield Fm.	Arkansas
Hypotype	120613
Caney Sh.	Oklahoma

newsomi Smith

Girty, G. H., 1909a: p. 62, pl. 12, figs. 11, 11a.

Hypotype (hypotype of *Neoglyphioceras cloudi* (Miller and Youngquist); *in* Gordon, 1965, p. 201)	119593
Caney Sh.	Oklahoma

Goniatites--Continued

nodiger Clarke

Clarke, J. M., 1885: p. 21.
Syntypes 14994
Genesee Fm. New York

oweni Hall

White, C. A., 1881: p. 146, 147, pl. 7, figs. 3, 4.
Hypotype 135214
"Sub-carboniferous Series, Kinderhook Div." (=Knobstone Div.)" Indiana

cf. *G. sphaericus* (Sowerby)

Gordon, Mackenzie, Jr., 1957: p. 45, 46, pl. 6, figs. 1-7; text-figs. 18a-c.
Figured specimens 118971a, b
Unnamed Ss. of Mississippian age Alaska

? sp.

Girty, G. H., 1910: p. 54, 55.
Described specimen 145230
Park City Fm. Wyoming

Cleland, H. F., 1911: p. 141, pl. 42, fig. 4.
Figured specimen 78336
Hamilton Fm. Wisconsin

spp.

Gordon, Mackenzie, Jr., 1957: p. 47, 48, text-fig. 20.
Figured specimen 118995
Lisburne Gr., dark gray sh. Alaska

Goniloboceras

goniolobum (Meek)

Meek, F. B. 1877, p. 98, 99, pl. 9, figs. 5, 5a, b
Holotype 156437
Carboniferous (?) New Mexico

Gordon, Mackenzie Jr., 1962: *in* Mudge and Yochelson, p. 96, pl. 17, figs. 24-26.
Hypotypes 134643
Stotler Ls., Grand Haven Ls. Mbr. Kansas

welleri gracile Girty

Girty, G. H., 1911b: p. 153, 154.
Holotype and paratypes 121096-121098
Wewoka Fm. Oklahoma

Goniolobocerasa--Continued

welleri gracile--Continued

Girty, G. H., 1915a: p. 263, 264, pl. 35, figs. 3-5b.
Holotype and paratypes 121096-121098
Wewoka Fm. Oklahoma

Gordonites

filifer Gordon

Gordon, Mackenzie, Jr., 1964b: p. 245, 246, pl. 26, figs. 4-6, 32; text-figs. 71.
Holotype and paratype 119648, 119649
Hale Fm., Prairie Grove Mbr. Arkansas

cf. *G. filifer* Gordon

Gordon, Mackenzie, Jr., 1964b: p. 246, pl. 26, fig. 33.
Figured specimen 119657
Johns Valley Sh. Arkansas

matheri Gordon

Gordon, Mackenzie, Jr., 1964b: p. 246, 247, pl. 26, figs. 8-13, 20; text-figs. 72.
Holotype and paratypes 119650, 119651
Hale Fm., Prairie Grove Mbr. Arkansas

Homoceratoides

cracens Gordon

Gordon, Mackenzie, Jr., 1964b: p. 241, 242, pl. 26, figs. 25-31; text-figs. 69a-h.
Holotype and paratypes 119654-119656, 119712
Hale Fm., Prairie Grove Mbr. Arkansas

Imitoceras

grahamense (Plummer and Scott)

Miller, A. K., and Downs, H. R., 1950: p. 193, 194, pl. 32, figs. 3, 4; text-fig. 2.
Hypotypes 115443a, b
Graham Fm., Finis Sh. Mbr. Texas

pfefferae Miller and Werner

Miller, A. K., and Werner, Courtney, 1942: p. 480, 481, text-figs. 2a-c.
Holotype 135225
Fern Glen Ls. Illinois

Imitoceras--Continued

sinuatum Gordon

Gordon, Mackenzie, Jr., 1964b: p. 166, 167, pl. 16, figs. 12-14; text-fig. 32.
Holotype and paratypes 119465, 119466
Walls Ferry Ls. Arkansas

sp.

Gordon, Mackenzie, Jr., 1964b: p. 166-168, text-fig. 33.
Figured specimen 119467
Boone Fm., St. Joe Ls. Mbr. Arkansas
Mentioned specimen 14236
Carboniferous Utah

Kazakhstania

? species

Gordon, Mackenzie, Jr., 1964: p. 171, 172, pl. 16, figs. 10, 11; text-fig. 36.
Figured and described specimens 119471, 119472
Walls Ferry Ls. Arkansas

Koenenites

cooperi Miller

Miller, A. K., 1938: p. 126-130, pl. 27, figs. 8-11; pl. 28, figs. 1-5; text-figs. 25, 26.
Syntypes 96546a-g
Antrim Fm., Unnamed Ls. at base Michigan

Lyrogoniatites

cloudi Miller and Youngquist

Miller, A. K., and Youngquist, Walter, 1948: p. 660, 661, pl. 94, figs. 1-3.
Holotype and paratypes 113011, 113012
Barnett Sh ? Texas

newsomi georgiensis Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940: p. 367, 369, pl. 48, figs. 4-10, text-fig. 12.
Holotype and paratypes 98937 (formerly 60600)
Floyd Sh. Georgia

sp.

Miller, A. K., et al., 1949: p. 609, 610, pl. 97, fig. 8.
Figured specimen (not located)
White Pine Sh. Nevada

Maenioceras

sp.

House, M. R., 1962: p. 268, 269, pl. 43, figs. 7, 8.
Figured, measured and described specimens — 137655a, b, 137656-137659
Millboro Sh. — Virginia

Manticoceras

amplexum ? (Hall)

Miller, A. K., 1938: p. 74-76, pl. 13, figs. 18, 19.
Figured and described specimens — 96545
Tully Ls., West Brook Mbr. — New York
Described specimen — 96552
Tully Ls. — New York

patersoni (Hall)

Butts, Charles, 1941: p. 205, pl. 120, fig. 32.
Hypotype — 97996
Millboro Sh., Naples Horiz. — Virginia

regulare Fenton and Fenton

Fenton, C. L., and Fenton, M. A., 1924: p. 196, 197, pl. 39, figs. 1-3.
Holotype and paratype — 78649
Cerro Gordo Substage — Iowa

sp.

Stainbrook, M. A., 1948: p. 779, pl. 1, fig. 43.
Figured specimen — 135267
Sly Gap Beds — New Mexico

House, M. R., 1962: p. 257, 261, text-figs. 4a, g.
Figured specimen — 146303 (USNM Canol 41236-2192)
Hay River Fm. — Canada
Figured specimen — 146324
Cerro Gordo Fm. — Iowa

Marathonites

J. P. smithi Böse

Smith, J. P., 1929: p. 77-80, fig. c, nos. 1-21.
Hypotypes — 144503-144508
Wolfcamp Fm. — Texas

Medlicottia

burckhardti Böse

Miller, A. K., and Furnish, W. M., 1940c: p. 52-55, pl. 8, figs. 1-3; pl. 9, figs. 0, 2; p. 54, text-figs. 11a-d, 12b.

Hypotypes	144426, 144427
Delaware Mountain Fm., South Wells Ls. Mbr.	Texas
Hypotype	144442
Delaware Mountain Fm., Getaway Ls. Mbr.	Texas

Miller, A. K., 1945: p. 15.

Hypotypes	111647, 111648
Word Fm.	Texas

copei White

White, C. A., 1889: p. 117, pl. 1, figs. 1-3.

Syntypes	21714
Permian	Texas

girtyi Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 59, 60.

Paratype	144440
Delaware Mountain Fm., Hegler Ls. Mbr.	Texas
Paratype	144441
Delaware Mountain Fm., Pinery Ls. Mbr.	Texas

aff. *M. girtyi*

Miller, A. K., and Furnish, W. M., 1940c: p. 60.

Mentioned specimen	144443
Delaware Mountain Fm., Hegler Ls. Mbr.	Texas

whitneyi Böse

Miller, A. K., 1945: p. 15.

Hypotypes	111636
Leonard Fm.	Texas

sp.

Miller, A. K., and Parizek, E. J., 1948: p. 351, 352, pl. 57, figs. 1, 2.

Figured specimen	112962
Hueco Fm.	New Mexico

Metalegoceras

baylorense (White)

Miller, A. K., and Parizek, E. J., 1948: p. 352, 353, pl. 56, figs. 1-4, text-fig. 1.

Hypotypes	112963-112965
Hueco Fm.	New Mexico

Metalegoceras --Continued

colemanense Plummer and Scott

Miller, A. K., and Youngquist, Walter, 1947: p. 11.
Hypotypes 146297
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

Muensteroceras (Münsteroceras of some authors)

arkansanum Gordon

Gordon, Mackenzie, Jr., 1964b: p. 177, 178, pl. 17, figs. 10-16; text-fig. 37.
Holotype and paratypes 119480, 119481-119483
Walls Ferry Ls. Arkansas

collinsoni Gordon

Gordon, Mackenzie, Jr., 1964b: p. 178, 179, pl. 17, figs. 17-19; text-fig. 38.
Holotype and paratypes 119484, 119485-119487
Walls Ferry Ls. Arkansas

(Cluthoceras) glicki Gordon

Gordon, Mackenzie, Jr., 1964b: p. 182, pl. 17, figs. 20-23; text-fig. 42.
Holotype and paratype 119496, 119497
Fayetteville Sh. Arkansas

pisiforme Gordon

Gordon, Mackenzie, Jr., 1964b: p. 180, 181, pl. 17, figs. 25-28, 30-33; text-fig. 40.
Holotype and paratypes 119489, 119490-119493
Fayetteville Sh. Arkansas

saginatum Gordon

Gordon, Mackenzie, Jr., 1957: p. 35, 36, pl. 4, figs. 14-16; text-figs. 11a, b.
Holotype 118956
Mississippian, undifferentiated Alaska

sp.

Gordon, Mackenzie, Jr., 1964b: p. 181, text-fig. 41.
Figured specimen 119488
Walls Ferry Ls. Arkansas

? sp.

Gordon, Mackenzie, Jr., 1964b: p. 181, pl. 17, figs. 7-9, 24.
Figured specimen 119494
Boone Fm., St. Joe Ls. Mbr. Arkansas
Figured specimen 119495
Boone Fm., Grand Falls Chert Mbr. Kansas

Neoaganides

grahamense Plummer and Scott

Gordon, Mackenzie, Jr., 1962, *in* Mudge, M. R., and Yochelson, E. L.: p. 96, pl. 17, figs. 21-23.

Hypotype	134642
Stotler Ls., Grand Haven Ls. Mbr.	Kansas

pygmaeus (Gemmellaro)

Miller, A. K., and Furnish, W. M., 1957b: p. 1044, 1045, 1047, pl. 131, figs. 4-7; text-figs. 2b, 3e.

Hypotypes	146298, 146299
Sosio Ls.	Sicily

Neoglyphioceras

caneyanum (Girty)

Gordon, Mackenzie, Jr., 1964b: p. 198-200, pl. 20, figs. 23, 24; text-fig. 50c.

Hypotype	119511
Caney Sh.	Oklahoma
Hypotype	119711
Batesville Ss.	Arkansas

caneyanum ? (Girty)

Gordon, Mackenzie, Jr., 1964b: p. 198-200.

Described specimens	146376
Fayetteville Sh.	Arkansas

cloudi (Miller and Youngquist)

Gordon, Mackenzie, Jr., 1964b: p. 200, 201, pl. 20, figs. 12-14, text-figs. 50d, e.

Hypotypes	119512
Caney Sh.	Oklahoma

crebriliratum Gordon

Gordon, Mackenzie, Jr., 1964b: p. 201, 202, pl. 20, figs. 15-18; text-fig. 50f.

Holotype and paratypes	119513, 119514
Fayetteville Sh.	Arkansas

newsomi (Smith)

Gordon, Mackenzie, Jr., 1964b: p. 202, 203, pl. 20, figs. 5-7.

Hypotype	119515
Ruddell Sh.	Arkansas

subcirculare (Miller)

Gordon, Mackenzie, Jr., 1964b: p. 203, 204, pl. 20, figs. 37-44; text-fig. 51b.

Hypotypes	119516, 119517
Ruddell Sh.	Arkansas

Neoglyphioceras--Continued

sp.

Gordon, Mackenzie, Jr., 1957: p. 49, pl. 6, figs. 10, 11.
Figured and described specimens 118975
Calico Bluff Fm. Alaska

Neopronorites

? sp.

Miller, A. K., and Youngquist, Walter, 1947: p. 7, pl. 3, figs. 11, 12.
Figured specimen 146300
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

Nomismoceras

marshallense Gordon

Gordon, Mackenzie, Jr., 1964b: p. 248, pl. 28, figs. 1-5; text-fig. 73.
Holotype and paratypes 119646, 119647
Fayetteville Sh. Arkansas

Paraceltites

altudensis (Böse)

Miller, A. K., and Furnish, W. M., 1940c: p. 70, 71, pl. 23, figs. 1-3.
Hypotypes 144429, 144434, 144435
Delaware Mountain Fm., Hegler Ls. Mbr. Texas

elegans Girty

Girty, G. H., 1908: p. 499, 500, pl. 25, figs. 12-14.
Syntypes 118625, 118626 (lectotype and paralectotypes selected by Miller and Furnish, 1940)
Delaware Mountain Fm., Basal Black Ls. Texas

Miller, A. K., and Furnish, W. M., 1940c: p. 67, 68, pl. 22, figs. 4-6.
Hypotypes 144410, 144411
Bone Spring Ls. Texas

multicostatus Böse

Smith, J. P., 1932: p. 41, pl. 44, figs. 10-14.
Hypotype 74981
Delaware Mountain Fm. Texas
Hypotype 74982
Word Fm. Texas

Paraceltites--Continued

ornatus Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 68, 69, pl. 6, fig. 5.
Syntype 144424
Delaware Mountain Fm., South Wells Ls. Mbr. Texas

aff. *P. ornatus* (Miller)

Miller, A. K., and Furnish, W. M., 1940c: p. 69.
Described specimens 146301
Delaware Mountain Fm., Getaway Ls. Mbr. Texas

sellardsi Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 69, 70, pl. 23, figs. 6, 7.
Holotype 144425
Delaware Mountain Fm., South Wells Ls. Mbr. Texas

Paracravenoceras

barnettense (Plummer and Scott)

Gordon, Mackenzie, Jr., 1960: p. 144-146, text-figs. 1c-e.
Hypotype 119546
Barnett Fm. Texas

ozarkense Gordon

Gordon, Mackenzie, Jr., 1960: p. 143, 144, pl. 28, figs. 12-15, 19-21, 29-31; text-figs. 1a, b, h, i.
Holotype and paratypes 119539-119544
Fayetteville Sh. Arkansas

Gordon, Mackenzie, Jr., 1964b: p. 217, 218, pl. 22, figs. 5-7.
Hypotype and figured specimen (figured specimen formerly *Cravenoceras* cf. *C. hesperium* of Easton, 1942, p. 86) 119545
Fayetteville Sh. Arkansas

Paradimorphoceras

(Glyphiolobus) lepidus (Girty)

Gordon, Mackenzie, Jr., 1964b: p. 282, text-fig. 92c.
Paratype (unfigured paratype of *Trizonoceras lepidum* Girty, 1909b, p. 71) 119715
Caney Sh. Oklahoma

Paradimorphoceras--Continued

(Glyphiolobus) sp.

Gordon, Mackenzie, Jr., 1964b: p. 282, pl. 28, figs. 6-9; text-fig. 92d.

Figured specimen	119688
Ruddell Sh.	Arkansas
Described specimens	146377
Fayetteville Sh.	Arkansas

spp.

Gordon, Mackenzie, Jr., 1964b: p. 281, 282, pl. 28, figs. 10-13; text-figs. 92a, b.

Figured specimens	119685
Fayetteville Sh.	Arkansas
Described specimens	119686
Caney Sh. erratic in Johns Valley Sh.	Arkansas

Paralegoceras

texanum (Shumard)

Gordon, Mackenzie, Jr., 1964b: p. 270.

Hypotypes	120670
Atoka Fm.	Arkansas

(Diaboloceras) varicostatum (Miller and Furnish)

Gordon, Mackenzie, Jr., 1964b: p. 270, 271, pl. 30, fig. 4; text-figs. 85c, d, f.

Hypotypes	119678
Atoka Fm.	Arkansas

Parapronorites

boesei Smith

Smith, J. P., 1929: p. 68-72, fig. c, nos. 22-27.

Holotype and paratypes	144521-144523
Wolfcamp Fm.	Texas

Peritrochia

erebus Girty

Girty, G. H., 1908: p. 499, pl. 25, figs. 9-11.

Holotype and paratypes	118623, 118624
Basal Black Ls. at Guadalupe Pt.	Texas

Miller, A. K., and Furnish, W. M., 1940c: p. 124-127, pl. 29, figs. 1, 2, 5-7; text-figs. 32b, 33a, b.

Hypotypes	144408, 144409, 144412, 144415, 144416
Bone Spring Ls.	Texas

267-454 O - 68 - 12

Peritrochia--Continued

novomexicana Miller and Parizek

Miller, A. K., and Parizek, E. J., 1948: p. 356, 357, pl. 58, figs. 4-9; text-fig. 3.

Holotype and paratypes	112966-112969, 112972
Hueco Fm.	New Mexico

sellardsi (Plummer and Scott)

Miller, A. K., and Youngquist, Walter, 1947: p. 12, 13, pl. 2, figs. 12-14.

Hypotypes	146302
Admiral Fm., Wildcat Creek Sh. Mbr.	Texas

Perrinites

hilli (Smith)

Miller, A. K., 1945: p. 19.

Hypotypes	111642, 111644
Leonard Fm.	Texas

Miller, A. K., et al., 1957: p. 1062.

Hypotypes	146304
Colina Ls.	Arizona

hilli tardus ? Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 154, 155, pl. 34, fig. 6.

Figured specimen	144407
Bone Spring Ls.	Texas

Pharciceras

amplexum (Hall)

House, M. R., 1962: p. 272-274, pl. 45, figs. 1, 2; text-fig. 10c.

Hypotype	143014
Tully Ls., Apulia Mbr. ?	New York
Measured hypotype	137661
Tully Ls., West Brook Mbr.	New York

Popanoceras

ganti Smith

Smith, J. P., 1903: p. 132, 133, pl. 21, figs. 14-16.

Holotype and paratypes	27202
Cisco Fm.	Texas

walcotti White

White, C. A., 1889: p. 117, pl. 1, figs. 9-11.

Holotype	21715
Permian	Texas

Popanoceras --Continued

? sp.

Girty, G. H., 1910: p. 55, pl. 7, fig. 15, 15a.
Figured specimen (holotype of *Vidrioceras girtyi* Miller and Cline, 1934) 145231
Park City Fm. Wyoming

Probeloceras

lutheri Clarke

Butts, Charles, 1941: p. 205, pl. 120, figs. 27-31.
Hypotype 97993
Portage Gr., Naples Horiz. Virginia
Hypotype 97994
Brallier Sh. Virginia
Hypotypes 97995a-c
Millboro Sh., Naples Horiz. Virginia

Prodromites

gorbyi (Miller)

Smith, J. P., 1903: p. 37-39.
Hypotype 146305
Kinderhook Gr., Chouteau Ls. ? Illinois

Gutschick, R. C., and Treckman, J. F., 1957: p. 1153, pl. 144, figs. 4-9; text-figs. 3d-e.
Hypotypes 136324, 136477
Rockford Ls. Indiana

Prolecanites (Rhipaecanites) ?

sp.

Gordon, Mackenzie, Jr., 1964a: p. A22, pl. 4, figs. 15-17; text-fig. 10d.
Figured specimen 120624
Perdido Fm. California

Pronorites

baconi (Miller, Youngquist, and Nielsen)

Gordon, Mackenzie, Jr., 1964b: p. 286, 287, pl. 23, figs. 34-37; text-fig. 95.
Hypotype 119474
Fayetteville Sh. Arkansas

cyclolobus arkansiensis Smith

Smith, J. P., 1896: p. 267-270, pl. 24, figs. 1-4.
Holotype 108493
Lower "Coal Measure," "Millstone Grit" Arkansas

Pronorites--Continued

? sp.

Girty, G. H., 1915a: p. 247, 248, pl. 34, figs. 5-5c.
Figured specimen 120842
Wewoka Fm. Oklahoma

Gordon, Mackenzie, Jr., 1957: p. 56, pl. 6, fig. 27.
Figured artificial cast and described specimen 118951
Alapah Ls. Alaska

Properrinites

bösei bösei (Plummer and Scott)

Miller, A. K., and Youngquist, Walter, 1947: p. 13-15, pl. 3, figs. 1-5.
Hypotypes 146306a, b; 146307
Admiral Fm., Wildcat Creek Sh. Mbr. Texas

sp.

Miller, A. K., and Parizek, E. J., 1948: p. 357, 358, pl. 57, figs. 7-9, text-fig. 4.
Figured specimens 112970, 112971
Hueco Fm. New Mexico

Propinacoceras

knighti Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 42-44, pl. 6, fig. 7, p. 43; text-fig. 7.
Holotype 14406
Bone Spring Ls. Texas

Proshumardites

morrowanus Gordon

Gordon, Mackenzie, Jr., 1964b: p. 277, 278, pl. 26, figs. 21-24; text-fig. 90.
Holotype and paratype 119679, 119687
Witts Springs Fm. Arkansas
Mentioned paratypes 119714
Bloyd Sh., Brentwood Mbr. Arkansas
Mentioned paratype 119714
Hale Fm. Arkansas

Protocanites

lyoni (Meek and Worthen)

Miller, A. K., 1936: p. 70, 71, text-figs. 1-3.
Hypotype 92431
Price Fm. Virginia

Protocanites--Continued

cf. *P. lyoni* (Meek and Worthen)

Gordon, Mackenzie, Jr., 1964b: p. 283, 284, pl. 23, fig. 21; text-fig. 93.
Figured specimens 119473
Walls Ferry Ls. Arkansas

? sp.

Gordon, Mackenzie, Jr., 1957: p. 56.
Described specimen 146308
Lisburne Gr. Alaska

Pseudogastrioceras

altudense (Böse)

Miller, A. K., and Furnish, W. M., 1940c: p. 85-87, pl. 14, figs. 1-3, 5, 6; pl. 17, fig. 4; pl. 18, figs. 2-5; pl. 19, figs. 4, 5, pl. 20, figs. 4, 5.
Hypotypes 144445-144449
Delaware Mountain Fm., South Wells Ls. Mbr. Texas
Hypotypes 144430, 144432
Hegler Ls. Texas
Hypotype (figured specimen of *Gastrioceras* sp. *in* Girty, 1908) 118628
Delaware Mountain Fm. Texas

beedei (Plummer and Scott)

Miller, A. K., and Furnish, W. M., 1940c: p. 88, 89, pl. 11, fig. 6; pl. 17, fig. 3; pl. 18, figs. 8, 9; pl. 19, figs. 7, 8; pl. 20, figs. 2, 3.
Hypotype 144436
Delaware Mountain Fm., Hegler Ls. Mbr. Texas
Hypotypes 144450-144453
Delaware Mountain Fm., South Wells Ls. Mbr. Texas

cooperi (Miller)

Miller, A. K., 1945: p. 15, 16, figs. 1, 2.
Holotype and paratypes 111641, 111645
Leonard Fm. Texas

mckeei

Miller, A. K., and Furnish, W. M., 1958: p. 682, pl. 94, figs. 1, 2, text-fig. 1.
Holotype and paratypes 119866, 119867
Kaibab Fm. Arizona

Pseudogastrioceras --Continued

roadense (Böse)

Miller, A. K., and Furnish, W. M., 1940c: p. 89-91, pl. 17, figs. 2, 5; pl. 18, figs. 10, 11.

Hypotype	144431
Delaware Mountain Fm., Hegler Ls. Mbr.	Texas
Hypotype	144454
Delaware Mountain Fm., South Wells Mbr.	Texas
Figured specimen	144455
Delaware Mountain Fm., Getaway Ls. Mbr.	Texas

Miller, A. K., 1945: p. 16, pl. 6, figs. 3-5; pl. 7, fig. 13.

Hypotypes	111638, 111640
Word Fm.	Texas

Pseudoparalegoceras

(Phaneroceras) compressum (Hyatt)

Gordon, Mackenzie, Jr., 1964b: p. 264, 265, pl. 29, figs. 1-4, 18-20; text-fig. 83a, b.

Lectotype and paratypes (syntypes of *Gastrioceras compressum* Hyatt, 1891)	23872, 120189
Carboniferous	Texas
Hypotypes	119713
Atoka Fm.	Arkansas

(Phaneroceras) kesslerense (Mather)

Gordon, Mackenzie, Jr., 1964b: p. 265-267, pl. 29, figs. 6-8; text-figs. 84b-d.

Hypotypes	119676, 119677
Atoka Fm.	Arkansas

williamsi Miller and Downs

Miller, A. K., and Downs, R. H., 1948: p. 677-678, pl. 101, fig. 5; pl. 102, figs. 1-5; pl. 103, figs. 6-9; text-fig. 2.

Holotype and paratypes	119618-119623
Winslow Fm.	Arkansas

Ptychites

cumminsi White

White, C. A., 1889: p. 117, pl. 1, figs. 4-8.

Syntypes	21704a-e
Permian	Texas

Pygmaeoceras

pygmaeum (Mather)

Gordon, Mackenzie, Jr., 1960: p. 148, 149, pl. 28, figs. 1-8; text-fig. 3a-c.
Hypotypes 119671
Hale Fm., Prairie Grove Mbr. Arkansas

solidum Gordon

Gordon, Mackenzie, Jr., 1964b: p. 262, pl. 28, figs. 26-39; text-fig. 82.
Holotype and paratypes 119672, 119673
Witts Springs Fm. Arkansas

Schistoceras

diversecostatum Böse

Smith, J. P., 1929: p. 76, 77, fig. B, Nos. 1-13.
Hypotypes 144509-144513
Wolfcamp Beds Texas

hildrethi Morton

Smith, J. P., 1903: p. 107, 108, pl. 3.
Hypotypes (not located or cataloged)
Cisco Fm. Texas

hyatti Smith

Smith, J. P., 1903: p. 108-111.
Paratypes 27201
Cisco Fm. Texas

Schuchertites

grahami Smith

Smith, J. P., 1903: p. 50, 51, pl. 21, figs. 20-22.
Holotype 27206
Cisco Fm. Texas

Schumardites

cuyleri Plummer and Scott

Miller, A. K., and Downs, H. R., 1950: p. 212-214, pl. 35, figs. 9, 10.
Hypotype 115441
Graham Fm., Finis Sh. Mbr. Texas

simondsi Smith

Smith, J. P., 1903: p. 135-138, pl. 3, figs. 3-10.
Paratypes 27203
Cisco Fm. Texas

Sobolewia

virginiana House

House, M. R., 1962: p. 270-272, pl. 44, figs. 1-3, 7-11; text-figs. 8a, b; 9a.
Holotype and paratypes 137646-137654
Millboro Sh. Virginia

sp.

House, M. R., 1962: p. 255.
Mentioned specimen
Hayter's Gap Virginia

Sporadoceras

cf. *S. pompeckji* Wedekind

House, M. R., 1962: p. 276, 277, pl. 46, fig. 12; text-figs. 12a, d.
Figured specimen 137645
Ellicott Sh. New York

Stacheoceras

gordoni Miller, Furnish, and Clark

Miller, A. K., et al., 1957b: p. 1062, 1063, pl. 134, figs. 1-4, text-fig. 3.
Holotype 119749
Wildwood Fm. California

normani Miller and Furnish

Miller, A. K., and Furnish, W. M., 1957b: p. 1055, 1056.
Paratypes (figured specimen of *Stacheoceras* sp., Miller, 1945) 111630
Word Fm., first Ls. Mbr. Texas

sp.

Miller, A. K., 1945: p. 18, pl. 8, figs. 7, 8; text-fig. 2.
Figured specimen (paratype of *S. normani* Miller & Furnish, 1957b) 111630
Leonard Fm. Texas

Stenopronorites

arkansiensis (Smith)

Gordon, Mackenzie, Jr., 1964b: p. 288-290, pl. 23, figs. 26-29.
Hypotype 119476
Bloyd Sh., Brentwood Ls. Mbr. Arkansas
Described hypotype 146378
Johns Valley Sh. Arkansas

Stenopronorites --Continued

arkansiensis ? (Smith)

Gordon, Mackenzie, Jr., 1964b: p. 290, pl. 23, fig. 41.
Figured specimen 119477
Johns Valley Sh. Arkansas

sp. A

Gordon, Mackenzie, Jr., 1964b: p. 290, pl. 16, figs. 25-28.
Figured specimens 120673
Atoka Fm. Arkansas

Strigogoniatites

fountaini Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 94-95, pl. 21, figs. 3-5; text-fig. 23c.
Syntypes 144456-144458
Delaware Mountain Fm., Lamar Ls. Mbr. Texas

Subanarcestes

cf. *S. micromphalus* (Roemer)

House, M. R., 1962: p. 264-266, pl. 43, figs. 3, 4; text-fig. 6.
Figured specimen 143015
Union Springs Fm. New York

Sudeticeras

alaskae Gordon

Gordon, Mackenzie, Jr., 1957: p. 48, 49, pl. 6, figs. 12-18; text-figs. 21a, b.
Holotype and paratypes 118973, 118974
Alapah Ls. Alaska

sp.

Gordon, Mackenzie, Jr., 1964b: p. 195, 196, pl. 16, fig. 19.
Figured and described specimens 119510
Ruddell Sh. Arkansas

Texoceras

texanum (Girty)

Miller, A. K., and Furnish, W. M., 1940c: p. 111-113, pl. 26, figs. 3, 5-7; text-fig. 29a
Hypotypes 144413, 144414
Bone Spring Ls. Texas

Thalassoceras

(Prothalassoceras) keytei Smith

Smith, J. P., 1929: p. 76, fig. B, nos. 14-16.
Holotype 144524
Wolfcamp Fm. Texas

welleri (Böse)

Miller, A. K., and Parizek, E. J., 1948: p. 353, 354, pl. 57, figs. 3-6.
Hypotypes 112973, 112974
Hueco Fm. New Mexico

Timorites

cf. *T. schucherti* Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 175-177, pl. 44, fig. 4.
Figured specimen (not located or cataloged)
Hegler Ls. Texas

Tornoceras

(Tornoceras) buttsi Miller

Miller, A. K., 1938: p. 147, 148, pl. 33, fig. 1; text-fig. 31.
Holotype 92247
Onondaga Fm. Virginia

(Tornoceras) buttsi ? Miller

Miller, A. K., 1938: p. 147, 148.
Described specimen (not located or cataloged)
Romney Fm., Onondaga Mbr. Maryland

(Tornoceras) uniangulare (Conrad)

Miller, A. K., 1938: p. 157-166, pl. 33, figs. 3, 4; pl. 34, figs. 1-4.
Hypotypes 96543a, b
Squaw Bay Ls. Michigan

(Tornoceras) aff. *T. T. uniangulare* (Conrad)

House, M. R., 1962: pl. 43, fig. 6.
Figured specimen 137660
Millboro Sh. Virginia

(Tornoceras) n. sp.

House, M. R., 1962: p. 275, text-fig. 11e.
Figured specimen 137667
Gowanda Sh. New York

Trizonoceras

lepidum Girty

Girty, G. H., 1909a: p. 71, pl. 11, figs. 13-14a.
Holotype and paratypes (119715 first figured by Gordon, 1964, p. 282, text-fig. 92c as paratype of *Paradimorphoceras (Glyphiolobus) lepidus*) 119599, 119600, 119715
Caney Sh. Oklahoma

typicale Girty

Girty, G. H., 1909a: p. 70, 71, pl. 11, figs. 12, 12a, b.
Holotype 119598
Caney Sh. Oklahoma

Uddenites

oweni Miller and Furnish

Miller, A. K., and Downs, H. R., 1950: p. 190, 191, pl. 31, figs. 1, 2; text-fig. 1.
Hypotype 115442
Graham Fm., Finis Sh. Mbr. Texas

schucherti Böse

Smith, J. P., 1929: p. 72-76, fig. A, nos. 1-3, 11-13.
Hypotypes 144514-144517
Wolfcamp Fm. Texas

Waagenoceras

cummingsi guadalupense Girty

Girty, G. H., 1908: p. 502, pl. 29, figs. 23-26.
Syntypes 118630
Delaware Mountain Fm. Texas

dieneri Böse

Miller, A. K., 1945: p. 20, 21, pl. 8, fig. 1, p. 22; text-fig. 1.
Hypotype 111623
Monos Fm. Mexico
Hypotypes 111632, 111633, 111646
Word Fm. Texas

guadalupense Girty

Miller, A. K., and Furnish, W. M., 1940c: p. 163-170, pl. 43, figs. 1-3; text-figs. 51a-e, 52a-c, p. 160, text-fig. 47a, p. 161, text-fig. 48b, p. 162, text-figs. 49a, b.
Hypotypes 144438, 144439
Delaware Mountain Fm., Hegler Ls. Mbr. Texas
Hypotypes and figured specimen 144420, 144421, 146309
Delaware Mountain Fm., South Wells Ls. Mbr. Texas

Waagenoceras --Continued

guadalupense guadalupense Girty

Miller, A. K., and Furnish, W. M., 1940c: p. 163-170, pl. 41, figs. 1-4; pl. 42, figs. 1-3, 6.
Hypotypes 144422, 144423
Delaware Mtn. Fm., South Wells Ls. Mbr. Texas
Hypotype 144437
Delaware Mtn. Fm., Hegler Ls. Mbr. Texas

guadalupense smithi Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 165-167, pl. 39, figs. 7, 8, p. 160, text-fig. 47b, 49c.
Syntypes 144417, 144418
Delaware Mountain Fm., South Wells Ls. Mbr. Texas

guadalupense thompsoni Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 164, 165, pl. 25, figs. 4-6.
Syntype 144419
Delaware Mountain Fm., South Wells Ls. Mbr. Texas

Winslowoceras

henbesti Miller and Downs

Miller, A. K., and Downs, R. H., 1948: p. 679, 680, pl. 103, figs. 1-5; text-fig. 3.
Holotype and paratype 118929, 118930
Winslow Fm. Arkansas

Gordon, Mackenzie, Jr., 1964b: p. 272, 273; text-fig. 87d.
Hypotypes 119680
Atoka Fm. Arkansas

Xenaspis

skinneri Miller and Furnish

Miller, A. K., and Furnish, W. M., 1940c: p. 76, 77, pl. 24, figs. 1-6.
Syntypes 144444a-e
Delaware Mountain Fm., Pinery Ls. Mbr. Texas

Subclass Bactritoidea

Bactrites

aciculum (Hall)

Kindle, E. M., 1912: p. 104, pl. 9, fig. 3.
Hypotype 62120
Onondaga Fm. Virginia

? *carbonarius* Smith

Gordon, Mackenzie, Jr., 1957: p. 20-22, pl. 1, figs. 11-13.
Hypotype 118945
Alapah Ls. Alaska

? *carbonarius* ? Smith

Gordon, Mackenzie, Jr., 1957: p. 20-22, pl. 1, fig. 10.
Figured specimen 118946
Alapah Ls. Alaska

? *gaitherensis* Gordon

Gordon, Mackenzie, Jr., 1964b: p. 104.
Paratypes 120644, 120646
Witts Springs Fm. Arkansas
Paratype 120645
Hale Fm. Arkansas

gracilior Clarke

Butts, Charles, 1941: p. 205, pl. 120, fig. 36.
Hypotype 97999
Millboro Sh., Naples Horiz. Virginia

? *quadrilineatus* Girty

Girty, G. H., 1909a: p. 50-52, pl. 6, figs. 1, 1a, b-3.
Syntypes 119580
Caney Sh. Oklahoma

? *quadrilineatus* ? Girty

Girty, G. H., 1909a: p. 50-52, pl. 6, figs. 4, 4a.
Figured specimen 119580a
Caney Sh. Oklahoma

? *redactus* Gordon

Gordon, Mackenzie, Jr., 1964b: p. 104, pl. 5, figs. 8, 9, 15.
Holotype and paratype 119019, 119020
Witts Springs Fm. Arkansas

? *smithianus* Girty

Girty, G. H., 1909a: p. 53, 54, pl. 6, figs. 5, 6.
Holotype and paratype 119581, 119582
Caney Sh. Oklahoma

Bactrites--Continued

? *smithianus*--Continued

Gordon, Mackenzie, Jr., 1964b: p. 104, 105, pl. 5, figs. 13, 14.
Hypotype 119021
Imo Fm. Arkansas

cf. *B. tenuicinctum* (Hall)

Kindle, E. M., 1912: p. 107
Described specimen (not located)
Onondaga Fm. Virginia

warthini Miller

Miller, A. K., 1938: p. 38, 39, pl. 2, figs. 3-8, 10; pl. 35, fig. 9.
Syntypes 96548 A-D, 96549
Antrim Fm. Michigan

Subclass Coleoidea

Bactritimimus

girtyi Flower and Gordon

Flower, R. H., and Gordon, Mackenzie, Jr., 1959: p. 830, 831, pl. 112, figs. 5-8; pl. 113, figs. 1, 2.

Holotype	119689
Fayetteville Sh.	Arkansas

cf. *B. girtyi* Flower and Gordon

Flower, R. H., and Gordon, Mackenzie, Jr., 1959: p. 831, pl. 112, figs. 9-11.

Figured specimen	120030
Fayetteville Sh.	Arkansas

ulrichi Flower and Gordon

Flower, R. H., and Gordon, Mackenzie, Jr., 1959: p. 829, 830, pl. 112, figs. 1-4.

Holotype	119690
Fayetteville Sh.	Arkansas

cf. *B. ulrichi* Flower and Gordon

Flower, R. H., and Gordon, Mackenzie, Jr., 1959: p. 830, pl. 113, figs. 29-31.

Figured specimen	120029
Fayetteville Sh.	Arkansas

Eobelemnites

caneyense Flower

Flower, R. H., 1945: p. 492-497, pl. 65, figs. 1-5; text-fig. 1.

Holotype	144670
Caney Sh.	Oklahoma

Hematites

barbarae Flower and Gordon

Flower, R. H., and Gordon, Mackenzie, Jr., 1959: p. 820-826, pl. 113, figs. 2-28; pl. 114, figs. 1-25; pl. 115, figs. 13-15, 18-22; pl. 116, figs. 1-7.

Holotype and paratypes	120022a, b - 120025a-e
Chainman Sh.	Utah
Paratypes	118996, 118997
Fayetteville Sh.	Arkansas

Hematites--Continued

burbankensis Flower and Gordon

Flower, R. H., and Gordon, Mackenzie, Jr., 1959: p. 826-828, pl. 115, figs. 1-12.

Holotype and paratypes	120026, 120027a, b
Chainman Sh.	Utah

cf. *H. burbankensis* Flower and Gordon

Flower, R. H., and Gordon, Mackenzie, Jr., 1959: p. 827, 828, pl. 115, figs. 16, 17.

Figured specimen	120028
Chainman Sh.	Utah

Paleoconus

bakeri Flower and Gordon

Flower, R. H., and Gordon, Mackenzie, Jr., 1959: p. 816, 817, pl. 112, figs. 15-22.

Holotype	120021
Fayetteville Sh.	Arkansas

LITERATURE CITED

Subclass Nautiloidea

BASSLER, R. S.
1919. The Cambrian and Ordovician deposits of Maryland: Systematic paleontology, Cambrian and Ordovician. *In* Maryland Geol. Surv., vol. 7. Cambrian and Ordovician. Baltimore: Johns Hopkins Press, pp. 189-424, pls. 24-58.

BASTIN, E. S., and WILLIAMS, H. S.
1914. Eastport folio, Maine. U.S. Geol. Surv., Geol. Atlas U.S., no. 192, 15 pp., 4 maps, 23 pls.

BILLINGS, ELKANAH
1861. Palaeozoic fossils. Canada Geol. Surv., vol. 1, pp. 21-22. [Advance sheets.]

BUTTS, CHARLES
1926. The Paleozoic rocks. *In* Adams et al., Geology of Alabama. Geol. Surv. Alabama, Spec. Rept. 14, pp. 40-230, pls. 3-76, text-figs. 2, 3.
1941. Geology of the Appalachian Valley in Virginia, pt. 2: Fossil plates and explanations. Virginia Geol. Surv., Bull. 52, iv + 271 pp., pls. 64-135.

CLARKE, J. M.
1885. On the higher Devonian faunas of Ontario County, New York. U.S. Geol. Surv. Bull. 16, 121 pp., 3 pls.
1894. *Nanno*, a new cephalopodan type. American Geol., vol. 14, no. 4, pp. 205-272, pl. 6, 1 fig.

CLARKE, J. M.
1897. The Lower Silurian Cephalopoda of Minnesota. *In* The geology of Minnesota, vol. 3, pt. 2 of Final Rept., pp. 760-812, pls. 47-60, 7 text-figs.

CLELAND, H. F.
1903. Further notes on the calciferous (Beekmantown) formation of the Mohawk Valley, with descriptions of new species. Bull. American Paleont., vol. 4, no. 18, pp. 27-51, pls. 3, 4.
1907. Restorations of certain Devonian cephalopods with descriptions of new species. Journ. Geol., vol. 15, no. 5, pp. 459-469, 14 text-figs.
1911. The fossils and stratigraphy of the Middle Devonic of Wisconsin. Wisconsin Geol. Nat. Hist. Surv. Bull. 21, Sci. Ser. no. 6, 222 pp., 53 pls., 5 figs.

CLOUD, P. E., JR., and BARNES, V. E.
1948. The Ellenburger group of central Texas. Univ. Texas Publ., no. 4621, 473 pp., 8 figs., 45 pls., 3 tables.

COOPER, G. A., and WILLIAMS, J. S.
1935. Tully formation of New York. Bull. Geol. Soc. America, vol. 46, no. 5, pp. 781-868, pls. 54-60, 7 text-figs.

DWIGHT, W. B.
1884. Recent explorations in the Wappinger Valley limestone of Dutchess County, New York. American Journ. Sci., 3rd ser., vol. 27, no. 160, art. 29, pp. 249-259, pl. 7.

EASTON, W. H.
1962. Carboniferous formations and faunas of central Montana. U.S. Geol. Surv., Prof. Pap. 348, 126 pp., 14 pls., 1 fig., 5 tables.

ENDO, RIUJI.
1930. The presence of *Nybyoceras* in South Manchuria. Denison Univ. Bull., Journ. Sci. Lab., vol. 25, pp. 297-299, pl. 60.
1932. The Canadian and Ordovician formations and fossils of South Manchuria. U.S. Nat. Mus. Bull. 164, 152 pp., 40 pls.

FLOWER, R. H.
1938. Devonian brevicones of New York and adjacent areas. Paleont. Amer., vol. 2, no. 9, 84 pp., 4 pls., 10 text-figs.
1939a. Structure and taxonomic position of *Troedssonoceras* Foerste. Journ. Paleont., vol. 13, no. 5, pp. 481-484, pl. 50.
1939b. Study of the Pseudothoceratidae. Paleont. Amer., vol. 2, no. 10, 214 pp., 9 pls., 22 text-figs.
1941a. Revision and internal structures of *Leurocycloceras*. American Journ. Sci., vol. 239, no. 7, pp. 469-488, pls. 1-3.
1941b. Cephalopods from the Seward Peninsula of Alaska. Bull. American Paleont., vol. 27, no. 102, pp. 3-22, pls. 1, 2.
1945. Classification of Devonian nautiloids. American Midland Nat., vol. 33, no. 3, pp. 675-724, pls. 1-5.
1946. Ordovician cephalopods of the Cincinnati region, pt. 1. Bull. American Paleont., vol. 29, no. 116, 751 pp., 50 pls., 22 text-figs.
1949. New genera of Devonian nautiloids. Journ. Paleont., vol. 23, no. 1, pp. 74-80, pls. 18-20, 2 text-figs.
1952. New Ordovician cephalopods from eastern North America. Journ. Paleont., vol. 26, no. 1, pp. 24-59, pls. 5-10, 1 text-fig.
1957. The Ordovician development of the Actinoceratida, with notes on actinoceroid morphology and Ordovician stratigraphy. Studies of the Actinoceratida. New Mexico State Bureau Mines, Min. Res., Mem. 2, pt. 1, pp. 1-59, pls. 1-12, 5 text-figs.

267-454 O - 68 - 13

FOERSTE, A. F.

1885. The Clinton group of Ohio. Denison Univ. Bull., vol. 1, pt. 1, pp. 63-120, pls. 13, 14.

1890. Notes on Clinton group fossils, with special reference to collections from Indiana, Tennessee, and Georgia. Proc. Boston Soc. Nat. Hist., vol. 24, pp. 263-355, pls. 5-9.

1893a. Remarks on specific characters in *Orthoceras*. American Geol., vol. 12, no. 4, pp. 232-236, text-figs. 1-7.

1893b. Fossils of the Clinton group of Ohio and Indiana. *In* Rept. Geol. Surv. of Ohio, vol. 7, pt. 2, ch. 5, pp. 516-601, pls. 25-37, 3 text-figs.

1909. Fossils from the Silurian formations of Tennessee, Indiana, and Illinois. Bull. Sci. Lab., Denison Univ., vol. 14, pp. 61-116.

1910. Preliminary notes on Cincinnatian and Lexington fossils of Ohio, Indiana, Kentucky, and Tennessee. Bull. Sci. Lab., Denison Univ., vol. 16, pp. 17-87, pls. 1-6.

1912. Strophomena and other fossils from Cincinnatian and Mohawkian horizons, chiefly in Ohio, Indiana, and Kentucky. Bull. Sci. Lab. Denison Univ., vol. 17, pp. 17-174, pls. 1-18.

1914. The Rogers Gap fauna of central Kentucky. Journ. Cincinnati Soc. Nat. Hist., vol. 21, no. 4, pp. 109-156, pls. 1-4.

1917. Notes on Richmond and related fossils. Journ. Cincinnati Soc. Nat. Hist., vol. 22, no. 2, pp. 44-46, pl. 1, figs. 3a-d; pl. 3, fig. 2.

1921. Notes on Arctic Ordovician and Silurian cephalopods. Denison Univ. Bull., Journ. Sci. Lab., vol. 19, pp. 247-306, pls. 27-35.

1923. Notes on Medinan, Niagaran, and Chester fossils. Denison Univ. Bull., Journ. Sci. Lab., vol. 20, pp. 37-120, pls. 4-15a.

1924. Notes on American Paleozoic cephalopods. Denison Univ. Bull. Journ. Sci. Lab., vol. 20, pp. 193-267, pls. 21-42.

1925. Notes on cephalopod genera; chiefly coiled Silurian forms. Denison Univ. Bull., Journ. Sci. Lab., vol. 21, pp. 1-69, pls. 1-24.

1926. Actinosiphonate, trochoceroid, and other cephalopods. Denison Univ. Bull., Journ. Sci. Lab., vol. 21, pp. 285-383, pls. 32-53.

1928a. American Arctic and related cephalopods. Denison Univ. Bull., Journ. Sci. Lab., vol. 23, pp. 1-110, pls. 1-29.

1928b. A restudy of some of the Ordovician and Silurian cephalopods described by Hall. Denison Univ. Bull., Journ. Sci. Lab., vol. 23, pp. 173-230, pls. 40-47.

1928c. A restudy of American orthoconic Silurian cephalopods. Denison Univ. Bull., Journ. Sci. Lab., vol. 23, pp. 236-320, pls. 48-75.

1930a. Three studies of cephalopods. Denison Univ. Bull., Journ. Sci. Lab., vol. 24, pp. 265-381, pls. 41-63.

1930b. Port Byron and other Silurian cephalopods. Denison Univ. Bull., Journ. Sci. Lab., vol. 25, pp. 1-124, pls. 1-25.

1932. The cephalopod genera *Cyrtendoceras* and *Oelandoceras*. Ohio Journ. Sci., vol. 32, no. 3, pp. 163-175, pls. 1, 2.

1932, 1933. Black River and other cephalopods from Minnesota, Wisconsin, Michigan, and Ontario (pts. 1, 2). Denison Univ. Bull., Journ. Sci. Lab., vol. 27 (pt. 1) pp. 1-136, pls. 7-27: vol. 28, (pt. 2), pp. 1-146.

1934. Silurian cyrtoconic cephalopods from Ohio, Ontario, and other areas. Denison Univ. Bull., Journ. Sci. Lab., vol. 29, art. 2, p. 107-193, pls. 29-42.

FOERSTE, A. F.
1935. Big Horn and related cephalopods. Denison Univ. Bull., Journ. Sci. Lab., vol. 30, pp. 1-96, pls. 1-22.
1936a. Silurian cephalopods of the Port Daniel area on Gaspe Peninsula, in eastern Canada. Denison Univ. Bull., Journ. Sci. Lab., vol. 31, pp. 21-92, pls. 4-26.
1936b. Several new Silurian cephalopods and crinoids, chiefly from Ohio and Hudson Bay. Ohio Journ. Sci., vol. 36, no. 5, pp. 261-272, pls. 1, 2.
FOERSTE, A. F., and SAVAGE, T. E.
1927. Ordovician and Silurian cephalopods of the Hudson Bay area. Denison Univ. Bull., Journ. Sci. Lab., vol. 22, pp. 1-107, pls. 1-24.
FOERSTE, A. F., and TEICHERT, CURT.
1930. The Actinoceroids of east-central North America. Denison Univ. Bull., Journ. Sci. Lab., vol. 25, pp. 201-296, pls. 27-60.
FURNISH, W. M., GLENISTER, B. F., and HANSMAN, R. H.
1962. Brachycycloceratidae, novum, deciduous Pennsylvanian nautiloids. Journ. Paleont., vol. 36, no. 6, pp. 1341-1356, pls. 179, 180, 3 text-figs.
GIRTY, G. H.
1908. The Guadalupian fauna. U.S. Geol. Surv. Prof. Pap. 58, 651 pp., 31 pls.
1909a. The fauna of the Caney shale of Oklahoma. U.S. Geol. Surv. Bull. 377, 106 pp., 13 pls.
1909b. Paleontology of the Manzano group: *In* Lee and Girty, The Manzano group of the Rio Grande Valley, New Mexico; U.S. Geol. Surv. Bull. 389, pp. 41-141, pls. 6-12.
1911a. The fauna of the Moorefield shale of Arkansas. U.S. Geol. Surv. Bull. 439, 148 pp., 15 pls.
1911b. On some new genera and species of Pennsylvanian fossils from the Wewoka formation of Oklahoma. Ann. New York Acad. Sci., vol. 21, pp. 119-156.
1915a. Fauna of the Wewoka formation of Oklahoma. U.S. Geol. Surv. Bull. 544, 353 pp., 35 pls.
1915b. The fauna of the Batesville sandstone of northern Arkansas. U.S. Geol. Surv. Bull. 593, 170 pp., 11 pls.
GORDON, MACKENZIE, JR.
1957. Mississippian cephalopods of northern and eastern Alaska. U.S. Geol. Surv. Prof. Pap. 283, 61 pp., 6 pls., 26 figs., 2 tables.
1960. Some American midcontinent Carboniferous cephalopods. Journ. Paleont., vol. 34, no. 1, pp. 133-151, pls. 27, 28, 3 text-figs.
GUTSCHICK, R. C., and TRECKMAN, J. F.
1957. Lower Mississippian cephalopods from the Rockford limestone of northern Indiana. Journ. Paleont., vol. 31, no. 6, pp. 1148-1153, pls. 143, 144, 3 text-figs.
HYATT, ALPHEUS
1891. Carboniferous cephalopods. *In* 2nd Ann. Rept. Geol. Surv. Texas, 1890, pp. 327-356, text-figs. 23-59.
1894. Phylogeny of an acquired characteristic. Proc. American Philos. Soc., vol. 32, no. 143, pp. 349-646, pls. 1-14, 19 text-figs.
KINDLE, E. M.
1901. The Devonian fossils and stratigraphy of Indiana. *In* 25th Ann. Rept., Indiana Dept. Geol. Nat. Res., pp. 529-764, pls. 1-31 (fossils); pl. 15 in text.

KINDLE, E. M., and BREGER, C. L.
1904. Pt. II, Paleontology. *In* Kindle, The stratigraphy and paleontology of the Niagara of northern Indiana; 28th Ann. Rept., Indiana Dept. Geol. Nat. Res., pp. 428-486, pls. 1-25.

KINDLE, E. M.
1909. The Devonian fauna of the Ouray Limestone. U.S. Geol. Surv. Bull. 391, 60 pp., 10 pls.

KOBAYASHI, TEIICHI
1935. On the phylogeny of the primitive nautiloids, with descriptions of *Plectronoceras liaotungense*, new species and *Iddingsia* (?) *shantungensis*, new species. Japanese Journ. Geol. Geogr., vol. 12, nos. 1, 2, pp. 17-26, pl. 6.

LINTZ, JOSEPH, JR.
1958. The fauna of the Ames and Brush Creek shales of the Conemaugh formation of western Maryland. Journ. Paleont., vol. 32, no. 1, pp. 97-112, pl. 16, 2 text-figs.

MCKELVEY, V. E.
1939. An Ordovician Zitteloceras from Wisconsin. Journ. Paleont., vol. 13, no. 1, pp. 74-76, 6 text-figs.

MEEK, F. B.
1865. Preliminary notice of a small collection of fossils found by Dr. Hays, on the west shore of Kennedy Channel, at the highest northern localities ever explored. American Journ. Sci. Arts. 2nd ser., vol. 40, (90), art. 4, pp. 31-34.
1868. Remarks on the geology of the valley of Mackenzie River, with figures and descriptions of fossils from that region, in the Museum of the Smithsonian Institution, chiefly collected by the late Robert Kennicott, Esq. Trans. Chicago Acad. Sci., vol. 1, art. 3, pp. 61-114, pls. 11-15.
1876. Appendix J. Report on the paleontological collections of the expedition. *In* Simpson, Report of explorations across the Great Basin of the Territory of Utah; Eng. Dept., U.S. Army, Washington, D.C., pp. 339-376, pls. 1-5.
1877. Report of the geological exploration of the fortieth parallel, etc., vol. 4, pt. 1, paleontology. Prof. Paps. Eng. Dept. U.S. Army, no. 18, pp. 1-197, pls. 1-17.

MEEK, F. B., and HAYDEN, F. V.
1864. Descriptions of new organic remains from northeastern Kansas, indicating the existence of Permian rocks in that territory. Trans. Albany Inst., vol. 4, 1858-1864, pp. 73-88.
1865. Paleontology of the Upper Missouri: A report upon collections made principally by the expeditions under command of Lt. G. K. Warren, U.S. Top. Enginrs., in 1855 and 1856. Smithsonian Contr. Knowl., vol. 14, no. 172, pt. 1, ix + 136 pp., pls. 1-7.

MILLER, A. K.
1945. Permian nautiloids from the Glass Mountains and the Sierra Diablo of west Texas. Journ. Paleont., vol. 19, no. 3, pp. 282-294, pls. 44, 45, 2 text-figs.
1958. Cephalopoda. *In* Easton, Saunders, Knight, and Miller, Mississippian fauna in northeastern Sonora, Mexico. Smithsonian Misc. Coll., vol. 119, no. 3, pp. 79, 80, pl. 9, text-fig. 4.

MILLER, A. K., and DOWNS, R. H.
1948. A cephalopod fauna from the type section of the Pennsylvanian "Winslow Formation" of Arkansas. Journ. Paleont., vol. 22, no. 6, pp. 672-680, pls. 101-103, 3 text-figs.

MILLER, A. K., and KEMP, A. H.
1947. A *Koninckioceras* from the Lower Permian of north-central Texas. Journ. Paleont., vol. 21, no. 4, pp. 351-354, pl. 51.

MILLER, A. K., and UNKLESBAY, A. G.
1942. Permian nautiloids from western United States. Journ. Paleont., vol. 16, no. 6, pp. 719-738, pls. 111-117, 4 text-figs.

MILLER, A. K., and YOUNGQUIST, WALTER
1947. Lower Permian cephalopods from the Texas Colorado River Valley. Univ. Kansas, Paleont. Contr., Mollusca, art. 1, pp. 1-15, pls. 1-3, figs. 1-4.
1948. The cephalopod fauna of the Mississippian Barnett formation of central Texas. Journ. Paleont., vol. 22, no. 6, pp. 649-671, pls. 94-100, 3 text-figs.
1949. American Permian nautiloids. Geol. Soc. America Mem. 41, 218 pp., 59 pls., 39 figs.

MILLER, A. K., YOUNGQUIST, WALTER, COLLINSON, CHARLES, and others.
1954. Ordovician cephalopod fauna of Baffin Island. Geol. Soc. America, Mem. 62, 234 pp., 62 pls., 20 figs., 2 tables.

MILLER, S. A.
1894. Paleontology. *In* 18th Ann. Rept. Indiana Dept. Geol., Nat. Res., 1893, pp. 257-356, pls. 1-12.

NETTELROTH, HENRY
1889. Kentucky fossil shells; a monograph of the fossil shells of the Silurian and Devonian rocks of Kentucky: Pt. 2, Description of species. Kentucky Geol. Surv., pp. 29-245, 36 pls.

RESSER, C. E., and ENDO, RIUJI
1937. Pt. 2, Description of the fossils. *In* Endo and Resser, The Sinian and Cambrian formations and fossils of southern Manchoukuo. Manchurian Sci. Bull. 1, pp. 103-301, pls. 14-73.

RUEDEMANN, RUDOLF
1921. On sex distinction in fossil cephalopods. *In* Paleontologic contributions from the New York State Museum: New York State Mus. Bull., no. 227, 228, 16th Rept. Dir. State Mus., Sci. Dept., pp. 68-70, text-figs. 5, 6, 6a.
1926. The Utica and Lorraine formations of New York: Pt. 2, Systematic paleontology: No. 2, mollusks, crustaceans, and eurypterids. New York State Mus. Bull., no. 272, 227 pp., 28 pls., 26 text-figs.

SCHUCHERT, CHARLES
1900. On the Lower Silurian (Trenton) fauna of Baffin Land. Proc. U.S. Nat. Mus., vol. 22, pp. 143-177, pls. 12-14.

TEICHERT, CURT
1933. Der Bau der Actinoceroiden cephalopoden. Paleontographica, Beitr. Naturaesch. Vorzeit, vol. 78, pt. A., pp. 111-230, 8 pls., 50 text-figs.

ULRICH, E. O., and FOERSTE, A. F.
1931. Paleontology of late Cambrian and early Ordovician formations in Missouri. Missouri Bur. Geol. Mines, vol. 24, 2nd ser., pp. 186-228 (3-42), pls. 18-22.
1936. New genera of Ozarkian and Canadian cephalopods. Denison Univ. Bull., Journ. Sci. Lab., vol. 30, pp. 259-290, pl. 38.

ULRICH, E. O., FOERSTE, A. F., and MILLER, A. K.
1943. Ozarkian and Canadian cephalopods: Pt. II: Brevicones. Geol. Soc. America, Spec. Paps., no. 49, x + 240 pp., 70 pls., 15 figs., 1 table.

ULRICH, E. O., FOERSTE, A. F., MILLER, A. K., and FURNISH, W. M.
1942. Ozarkian and Canadian cephalopods: Pt. I: Nautilicones. Geol. Soc. America, Spec. Paps., no. 37, 157 pp., 57 pls., 23 text-figs., 1 table.

ULRICH, E. O., FOERSTE, A. F., MILLER, A. K., and UNKLESBAY, A. G.
1944. Ozarkian and Canadian cephalopods: Pt. III: Longicones and summary. Geol. Soc. America, Spec. Paps., no. 58, x + 226 pp., 68 pls., 9 text-figs.

UNKLESBAY, A. G.
1954. Nautiloids from the Tanyard formation of central Texas. Journ. Paleont., vol. 28, no. 5, pp. 637-656, pls. 68-71.
1961. Nautiloids from the Gorman and Honeycut of central Texas. Journ. Paleont., vol. 35, no. 2, pp. 373-379, pls. 51, 52, 1 text-fig.

WALCOTT, C. D.
1884. Paleontology of the Eureka District. U.S. Geol. Surv., Monogr. 8, 298 pp., 24 pls., 7 figs.
1888. The Taconic system of Emmons, and the use of the name Taconic in geologic nomenclature. American Journ. Sci., 3rd ser., vol. 35, no. 207, art. 20, pp. 229-242, text-figs. 1-9, pl. 3.
1905. Cambrian faunas of China. Proc. U.S. Nat. Mus., vol. 29, no. 1415, pp. 1-106.
1924. Cambrian geology and paleontology. Pt. 4, no. 9: Cambrian and Ozarkian brachiopods, Ozarkian cephalopods and Notostraca. Smithsonian Misc. Coll., vol. 67, no. 9, pub. 2753, pp. 477-554, pls. 106-126.

WELLER, STUART
1897. The Batesville sandstone of Arkansas. Trans. New York Acad. Sci., vol. 26, pp. 251-288, pls. 19-21.

WHITE, C. A.
1874. Preliminary report upon invertebrate fossils collected by the expeditions of 1871, 1872, and 1873, with descriptions of new species. Eng. Dept., U.S. Army, Geogr. Geol. Expl., Surv. West 100th Merid., pp. 5-27.
1877. Reports upon the invertebrate fossils collected in portions of Nevada, Utah, Colorado, New Mexico, and Arizona, by parties of the expeditions of 1871, 1872, 1873, and 1874. *In* Rept. U.S. Geogr. Surv. West 100th Merid., vol. 4, Paleont., pt. 1, pp. 5-206, pls. 1-21.
1884. The fossils of the Indiana rocks, no. 3. *In* Indiana Dept. Geol. Nat. Hist., 13th Ann. Rept., pt. 2, Paleont., pp. 107-185, pls. 23-39.
1891. The Texas Permian, and its Mesozoic types of fossils. U.S. Geol. Surv. Bull. no. 77, 51 pp., 4 pls.

WHITEAVES, J. F.
1898. On some additional or imperfectly understood fossils from the Hamilton Formation of Ontario, with a revised list of the species therefrom. Geol. Surv. Canada, Contr. Canadian Paleont., vol. 1, pt. 5, no. 7, pp. 361-436, pls. 48-50.

WHITFIELD, R. P.
1878. Preliminary descriptions of new species of fossils from the lower geological formations of Wisconsin. *In* Chamberlain, T. C., Ann. Rept. Wisconsin Geol. Surv. for 1877, pp. 50-89.
1882. Pt. III, Paleontology. *In* Geol. of Wisconsin, Surv. of 1873-1879, vol. 4, pp. 163-363, pls. 1-27.

WHITFIELD, R. P.
1886. Notice of geological investigations along the eastern shore of Lake Champlain, conducted by Prof. H. Seely and Pres. Ezra Brainerd, of Middlebury College, with descriptions of the new fossils discovered. American Mus. Nat. Hist. Bull., vol. 1, no. 8, pp. 294-308, pls. 24-35.

WILLIAMS, H. S., and BREGER, C. L.
1916. The fauna of the Chapman sandstone of Maine, including descriptions of some related species from the Moose River sandstone. U.S. Geol. Surv., Prof. Pap. 89, 347 pp., 27 pls., 2 figs.

Subclass Ammonoidea

BUTTS, CHARLES
1941. Geology of the Appalachian Valley in Virginia. Pt. 2, Fossil plates and explanations. Virginia Geol. Surv. Bull. 52, iv + 271 pp., pls. 64-135.

CLARKE, J. M.
1885. On the higher Devonian faunas of Ontario County, New York. U.S. Geolog. Surv. Bull. 16, 121 pp., 3 pls.

CLELAND, H. F.
1911. The fossils and stratigraphy of the Middle Devonic of Wisconsin. Wisconsin Geol. Nat. Hist. Surv., Bull. 21, Sci. ser. no. 6, 222 pp., 53 pls., 5 figs.

CLOSS, DARCY, GORDON, MACKENZIE, JR., and YOCHELSON, E. L.
1964. Cornaptychi from the Permian of Utah. Journ. Paleont., vol. 38, no. 5, pp. 899-903, pl. 146.

EASTON, W. H.
1942. Pitkin limestone of northern Arkansas. Arkansas Geol. Surv. Bull. 8, 115 pp., 12 pls., 10 text-figs.
1962. Carboniferous formations and faunas of central Montana. U.S. Geol. Surv. Prof. Pap. 348, 126 pp., 14 pls., 1 fig., 5 tables.

FENTON, C. L., and FENTON, M. A.
1924. Stratigraphy and fauna of the Hackberry stage of Upper Devonian. Univ. Mich., Contrib. Mus. of Geol., vol. 1, pp. 1-260, pls. 1-45.

GIRTY, G. H.
1909a. The fauna of the Caney shale of Oklahoma. U.S. Geol. Surv. Bull. 377, 106 pp., 13 pls., tables.
1909b. Paleontology of the Manzano group: *In* Lee and Girty. The Mazano group of the Rio Grande Valley, New Mexico; U.S. Geol. Surv. Bull. 389, pp. 41-141, pls. 6-12.
1908. The Guadalupian fauna. U.S. Geol. Surv. Prof. Pap. 58, pp. 1-651, pls. 1-31.
1910. The fauna of the phosphate beds of the Park City formation in Idaho, Wyoming, and Utah. U.S. Geol. Surv. Bull. 436, 82 pp., 7 pls.
1911a. The fauna of the Moorefield shale of Arkansas. U.S. Geol. Surv. Bull. 439, 148 pp., 15 pls.
1911b. On some new genera and species of Pennsylvania fossils from the Wewoka formation of Oklahoma. Ann. New York Acad. Sci., vol. 21, pp. 119-156.

GIRTY, G. H.
1915a. Fauna of the Wewoka formation of Oklahoma. U.S. Geol. Surv. Bull. 544, 353 pp., 35 pls.
1915b. The fauna of the Batesville sandstone of northern Arkansas. U.S. Geol. Surv. Bull. 593, 170 pp., 11 pls.
1915c. Invertebrate paleontology. Missouri Bur. Geol. Mines, vol. 3, 2nd ser., pp. 263-375, pls. 27-32.

GORDON, MACKENZIE, JR.
1957. Mississippian cephalopods of northern and eastern Alaska. U.S. Geol. Surv., Prof. Pap. 283, 61 pp., 6 pls., 26 figs., 2 tables.
1960. Some American midcontinent carboniferous cephalopods. Journ. Paleont., vol. 34, no. 1, pp. 133-151, pls. 27, 28, 3 text-figs.
1962 [1963]. Class cephalopods, *In* Mudge and Yochelson, stratigraphy and paleontology of the uppermost Pennsylvanian and lowermost Permian rocks in Kansas. U.S. Geol. Surv. Prof. Pap. 323, pp. 95, 96, 123, 126, pl. 17, figs. 21-29.
1964a. California carboniferous cephalopods. U.S. Geol. Surv., Prof. Pap. 483-A, 25 pp., 4 pls., 12 figs.
1964b. Carboniferous cephalopods of Arkansas. U.S. Geol. Surv. Prof. Pap. 460, 303 pp., 30 pls., 96 text-figs.

GUTSCHICK, R. C., and TRECKMAN, J. F.
1957. Lower Mississippian cephalopods from the Rockford limestone of northern Indiana. Journ. Paleont., vol. 31, no. 6, pp. 1148-1153, pls. 143, 144, 3 text-figs.

HALL, JAMES and WHITFIELD, R. P.
1877. Paleontology. U.S. Geol. Expl. 40th Parallel (King) Rept., vol. 4, pt. 2, pp. 197-302, pls. 1-7.

HOUSE, M. R.
1962. Observations on the ammonoid succession of the North American Devonian. Journ. Paleont., vol. 36, no. 2, pp. 247-284, pls. 43-48, 15 text-figs.

HYATT, ALPHEUS
1891. Carboniferous cephalopods. *In* 2nd Ann. Rept. Geol. Surv. Texas, 1890, pp. 327-356, text-figs. 23-59.

KINDLE, E. M.
1912. The Onodago fauna of the Allegheny region. U.S. Geol. Surv. Bull. 508, 116 pp., 13 pls.

MEEK, F. B.
1876. Notice of a very large goniatite from eastern Kansas. U.S. Geol. and Geogr. Surv. Terr. (Hayden), Bull. [1], no. 6 (2), p. 445.
1877. Report of the geological exploration of the fortieth parallel, etc., vol. 4, pt. 1, paleontology. Prof. Paps. Eng. Dept. U.S. Army, no. 18, pp. 1-197, pls. 1-17.

MILLER, A. K.
1936. A Mississippian goniatite from Virginia. Journ. Paleont., vol. 10, no. 1, pp. 69-72, 3 text-figs.
1938. Devonian ammonoids of America. Geol. Soc. America, Spec. Paps., no. 14, pp. 1-262, pls. 1-29.
1945. Some exceptional Permian ammonoids from west Texas. Journ. Paleont., vol. 19, no. 1, pp. 14-21, pls. 1-8, 3 text-figs.
1951. A clymenoid ammonoid from New Mexico. American Journ. Sci., vol. 249, pp. 600-603, text-fig. 1.

MILLER, A. K. and DOWNS, H. R.
1948. A cephalopod fauna from the type section of the Pennsylvanian "Winslow Formation" of Arkansas. Journ. Paleont., vol. 22, no. 6, pp. 672-680, pls. 101-103, 3 text-figs.

MILLER, A. K. and DOWNS, H. R.
1950. Ammonoids of the Pennsylvania Finis shale of Texas. Journ. Paleont., vol. 24, no. 2, pp. 185-218, pls. 31-35, 11 text-figs.
MILLER, A. K., DOWNS, H. R., and YOUNGQUIST, WALTER
1949. Some Mississippian cephalopods from central and western United States. Journ. Paleont., vol. 23, no. 6, pp. 600-612, pls. 97-99, 3 text-figs.
MILLER, A. K., and FURNISH, W. M.
1940a. Studies of carboniferous ammonoids. Pts. 1-4, Journ. Paleont., vol. 14, no. 4, pp. 356-377, pls. 45-49.
1940b. Studies of carboniferous ammonoids. Pts. 5-7, Journ. Paleont., vol. 14, no. 6, pp. 521-542, pls. 62-65.
1940c. Permian ammonoids of the Guadalupe Mountain region and adjacent areas. Geol. Soc. America. Spec. Paps., no. 26, 242 pp., 44 pls., 59 text-figs.
1957a. Permian ammonoids from Tunisia. Journ. Paleont., vol. 31, no. 4, pp. 705-712, pl. 83, 4 text-figs.
1957b. Permian ammonoids from southern Arabia. Journ. Paleont., vol. 31, no. 6, pp. 1043-1051, pls. 131, 132, 6 text-figs.
1958. Permian ammonoids from the Colorado Plateau [and] the goniatite genus *Anthracoceras*. Journ. Paleont., vol. 32, no. 4, pp. 682-683, pl. 94, pp. 684-686.
MILLER, A. K., and OWEN, J. B.
1944. The cephalopod fauna of the Pennsylvania Union Valley formation of Oklahoma. Journ. Paleont., vol. 18, no. 5, pp. 417-428, pls. 63-68, 4 text-figs.
MILLER, A. K., and PARIZEK, E. J.
1948. A lower Permian ammonoid fauna from New Mexico. Journ. Paleont., vol. 22, no. 3, pp. 350-358, pls. 56-58, 4 text-figs.
MILLER, A. K., and UNKLESBAY, A. G.
1943. The siphuncle of late Paleozoic ammonoids. Journ. Paleont., vol. 17, no. 1, pp. 1-25, pls. 1-5, 9 text-figs.
MILLER, A. K., and WERNER, COURTNEY
1942. A goniatite from the Mississippian Fern Glen formation of Illinois. Journ. Paleont., vol. 16, no. 4, pp. 479-481, 2 text-figs.
MILLER, A. K., and YOUNGQUIST, WALTER
1947. Lower Permian cephalopods from the Texas Colorado River Valley. Kansas Univ. Paleont. Contr., no. 2, art. 1, 15 pp., 3 pls., 4 text-figs.
1948. The cephalopod fauna of the Mississippian Barnett formation of central Texas. Journ. Paleont., vol. 22, no. 6, pp. 649-671, pls. 94-100, 3 text-figs.
SMITH, J. P.
1896. Marine fossils from the "Coal Measures" of Arkansas. Amer. Philos. Soc., Proc., vol. 35, no. 152, pp. 213-285, pls. 16-24.
1903. The carboniferous ammonoids of America. U.S. Geol. Surv., Mon. 42, 211 pp., 29 pls.
1932. Lower Triassic ammonoids of North America. U.S. Geol. Surv. Prof. Pap. 167, 111 pp., tables, 1 fig., 81 pls.
STAINBROOK, M. A.
1948. Age and correlation of the Devonian Sly Gap beds near Alamagordo, New Mexico. Am. Journ. Sci., v. 246, pp. 765-790, pls. 1-2.
WALCOTT, C. D.
1884. Paleontology of the Eureka District. U.S. Geol. Surv., Mon. 8, 298 pp., 24 pls., 7 figs.

WHITE, C. A.
1881. Paleontology. Fossils of the Indiana rocks. *In* 2nd Ann. Rept. Bur. Stat. Geol. Indiana, 164 pp., 11 pls.
1889. On the Permian formations of Texas, American Naturalist, vol. 23, pp. 1-177, pl. 1.
1891. The Texas Permian, and its Mesozoic types of fossils. U.S. Geol. Surv. Bull. 77, 51 pp., 4 pls.
YOUNGQUIST, WALTER
1949. The cephalopod fauna of the White Pine shale of Nevada, supplement: Journ. Paleont., v. 23, no. 6, pp. 613-616, pl. 100, 1 text-fig.

Subclass Bactritoidea

BUTTS, CHARLES
1941. Geology of the Appalachian Valley in Virginia; Pt. 2, Fossil plates and explanations. Virginia Geol. Surv., Bull. 52, iv + 271 pp., pls. 64-135.
GIRTY, G. E.
1909. The fauna of the Caney shale of Oklahoma. U.S. Geol. Surv., Bull. 377, 106 pp., 13 pls.
GORDON, MACKENZIE, JR.
1957. Mississippian cephalopods of northern and eastern Alaska. U.S. Geol. Surv., Prof. Pap. 283, 61 pp., 6 pls., 26 figs., 2 tables.
1964. Carboniferous cephalopods of Arkansas. U.S. Geol. Surv., Prof. Pap. 460, vii + 314 pp., 30 pls., 96 figs., 7 tables.
KINDLE, E. M.
1912. The Onodaga fauna of the Allegheny region. U.S. Geol. Surv., Bull. 508, 116 pp., 13 pls.
MILLER, A. K.
1938. Devonian ammonoids of America. Geol. Soc. America, Spec. Paps., no. 14, 262 pp., 39 pls., 41 text-figs.

Subclass Coleoidea

FLOWER, R. H.
1945. A belemnite from a Mississippian boulder of the Caney shale. Journ. Paleont., vol. 19, pp. 490-503, pl. 65, 1 text-fig.
FLOWER, ROUSSEAU H., and GORDON, MACKENZIE, JR.
1959. More Mississippian belemnites. Journ. Paleont., vol. 33, no. 5, pp. 809-842, pls. 112-116.

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